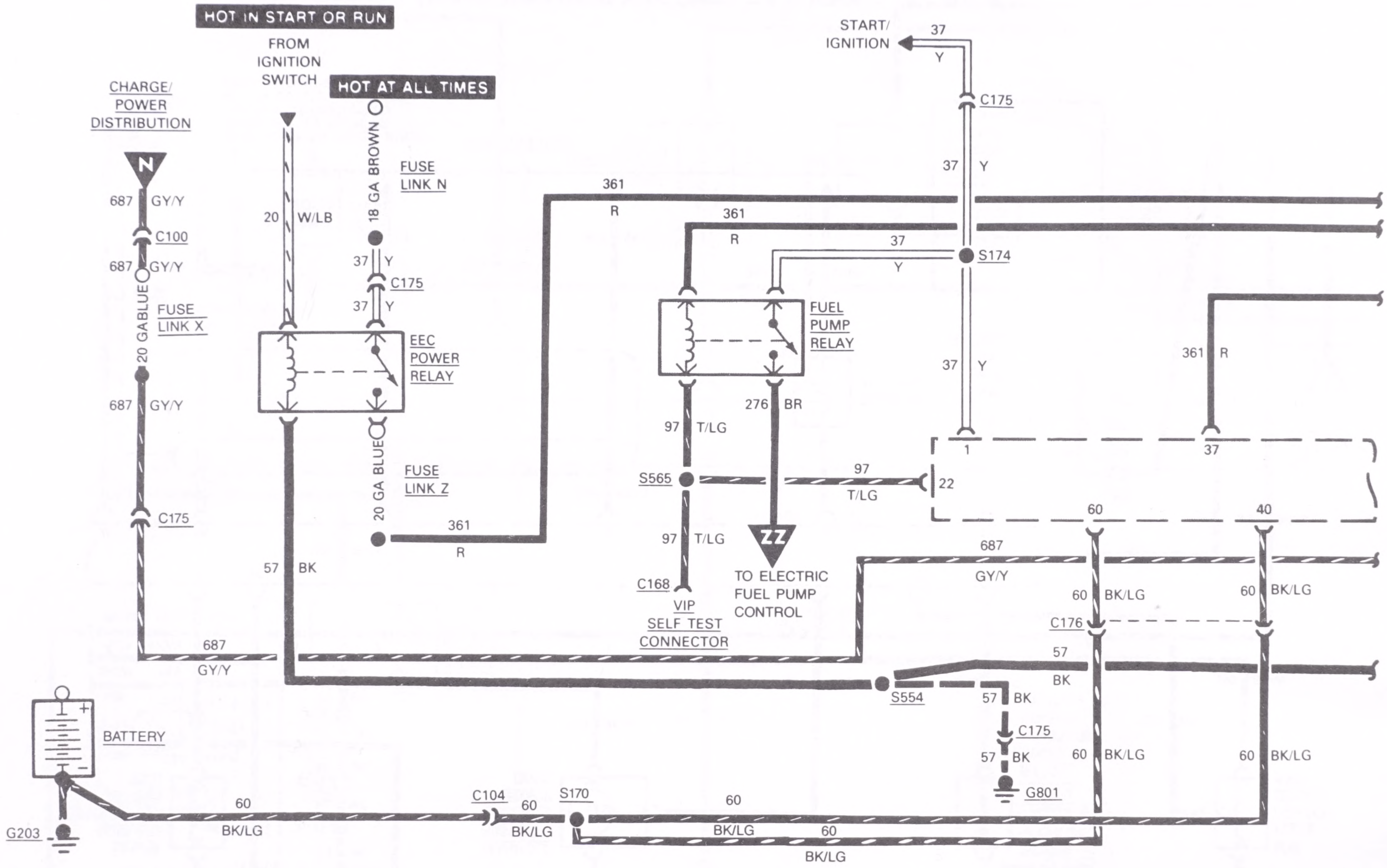
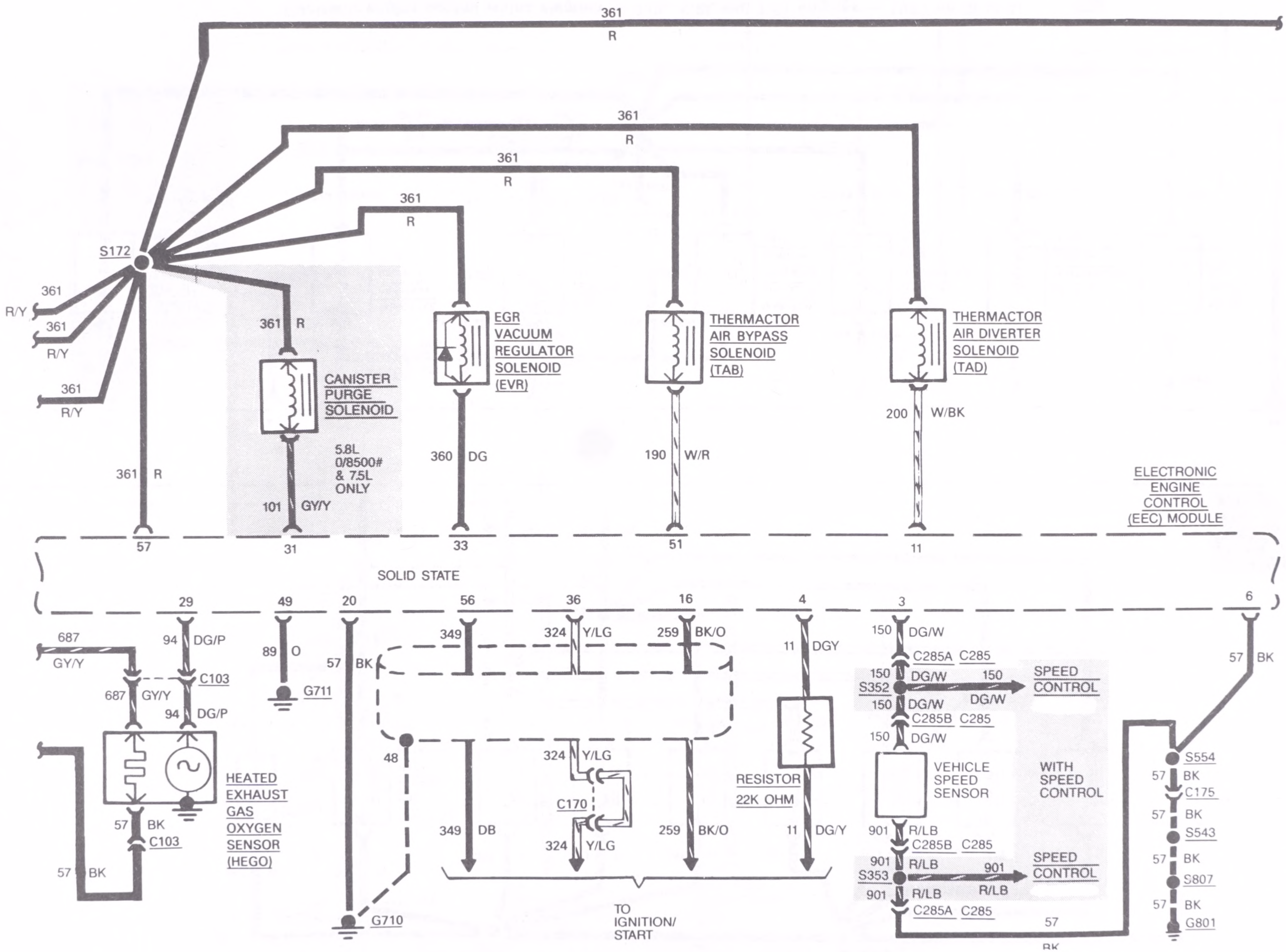
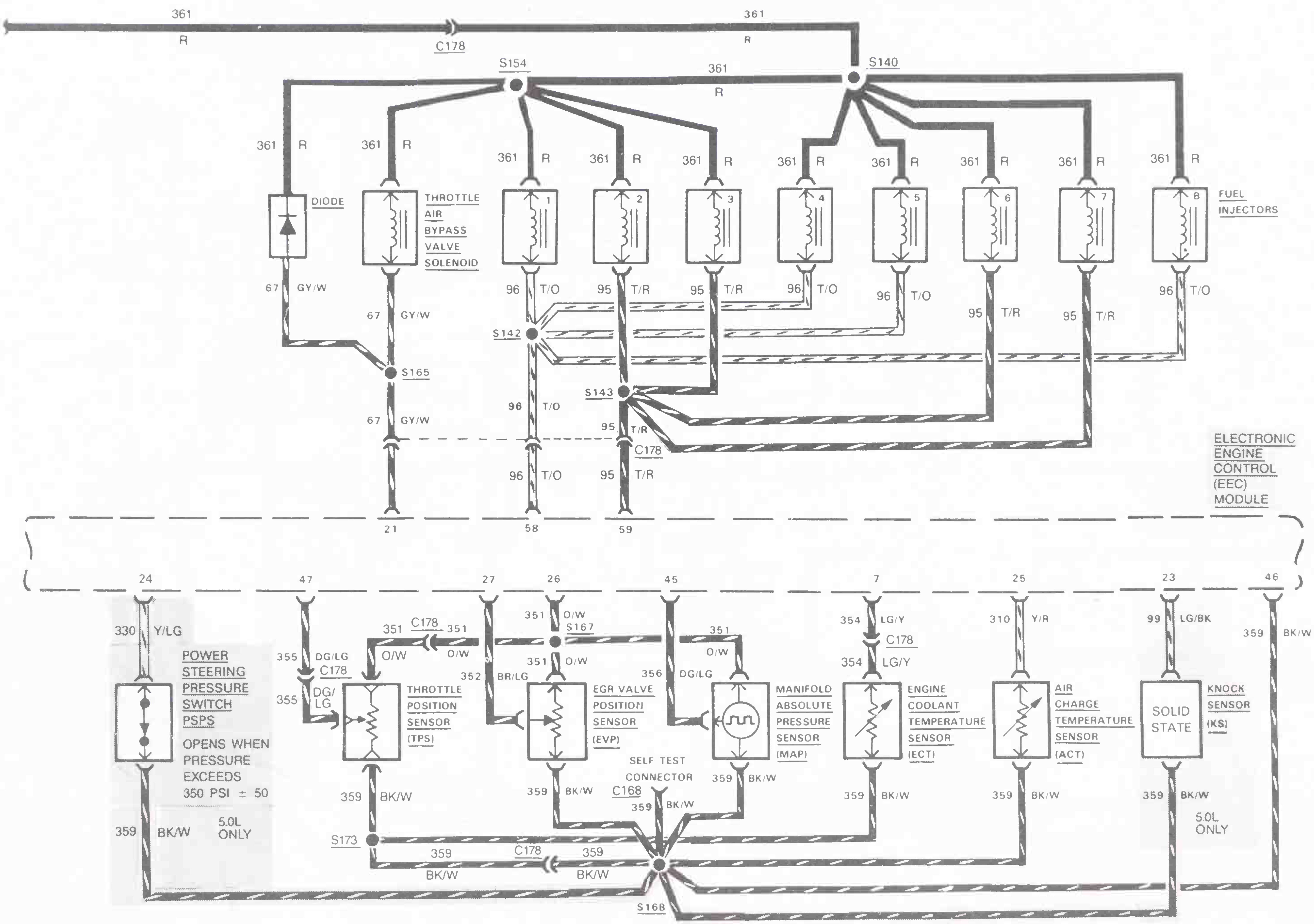


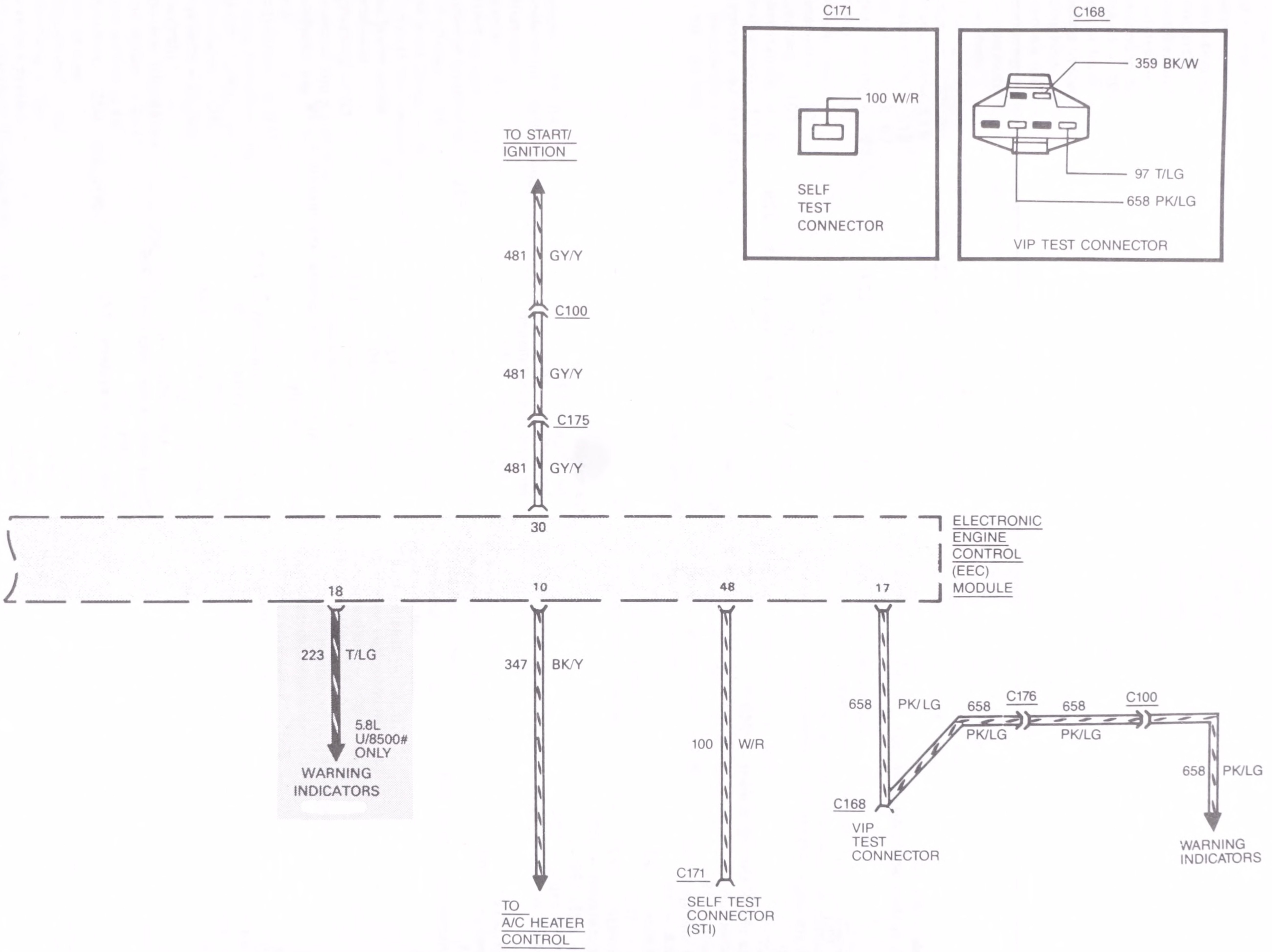
Electronic engine control wiring diagram — 5.0L, 5.8L and 7.5L engines — 1987 on (1 of 4)



Electronic engine control wiring diagram — 5.0L, 5.8L and 7.5L engines — 1987 on (2 of 4)


361
R
C178
361
R
S154
361
R
S140
361 R
DIODE
THROTTLE AIR BYPASS VALVE SOLENOID
1
2
3
4
5
6
7
8
FUEL INJECTORS
67 GY/W
96 T/O
95 T/R
S142
S165
S143
C178
21
58
59
ELECTRONIC ENGINE CONTROL (EEC) MODULE
24
47
27
26
45
7
25
23
46
330 Y/LG
POWER STEERING PRESSURE SWITCH PSPS
OPENS WHEN PRESSURE EXCEEDS 350 PSI ± 50
359 BK/W
5.0L ONLY
355 DG/LG
C178
355 DG/LG
351 O/W
352 BR/LG
THROTTLE POSITION SENSOR (TPS)
351 O/W
S167
EGR VALVE POSITION SENSOR (EVP)
356 DG/LG
MANIFOLD ABSOLUTE PRESSURE SENSOR (MAP)
354 LG/Y
ENGINE COOLANT TEMPERATURE SENSOR (ECT)
310 Y/R
AIR CHARGE TEMPERATURE SENSOR (ACT)
99 LG/BK
SOLID STATE
KNOCK SENSOR (KS)
SELF TEST CONNECTOR
C168
S173
S168
5.0L ONLY

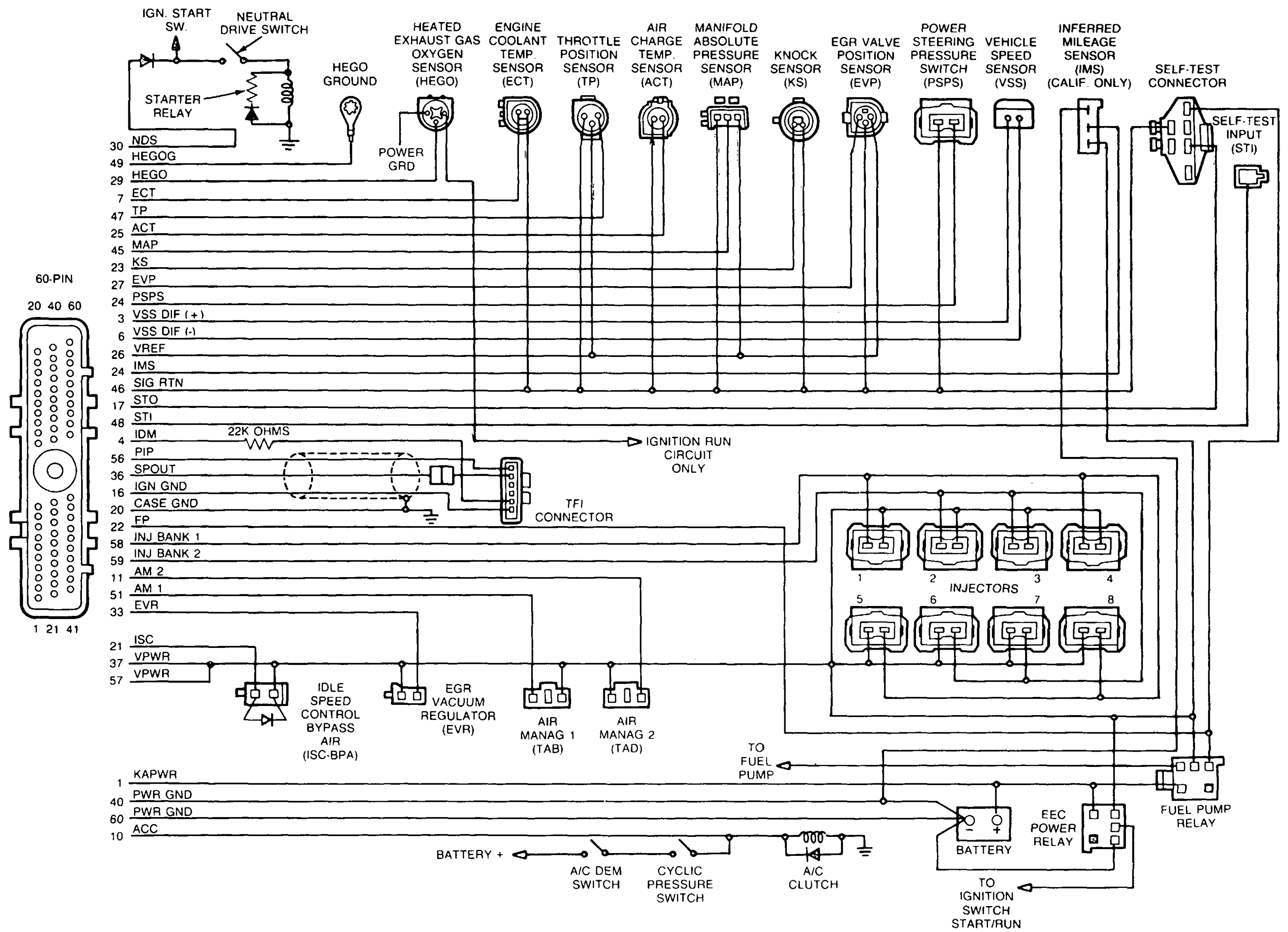
Electronic engine control wiring diagram — 5.0L, 5.8L and 7.5L engines — 1987 on (3 of 4)



Electronic engine control wiring diagram — 5.0L, 5.8L and 7.5L engines — 1987 on (4 of 4)

Electrical Schematic

5.0L EFI



NOTE: WIRING SCHEMATIC SHOWS PIN OUT LOOKING INTO HARNESS CONNECTOR

A9130-B

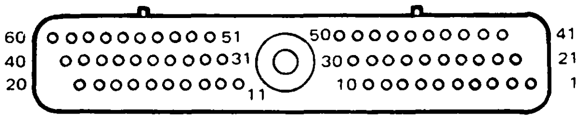
EEC-IV Module Connector Pin Usage

5.0L EFI

F-SERIES/BRONCO

Pin	Circuit	Wire Color	Application	Abbreviations
1	37	Y	Keep Alive Power	KAPWR
3	150	DG/W	Vehicle Speed Sensor +	VSS DIF +
4	11	DG/Y	Ignition Diagnostic Monitor	IDM
6	57	BK	Vehicle Speed Sensor –	VSS DIF –
7	354	LG/Y	Engine Coolant Temperature Sensor	ECT
10	347	BK/Y	A/C Cycling Switch	ACCS
11	200	W/BK	Air Management 2 (TAD)	AM-2
16	259	BK/O	Ignition Ground	IGN GND
17	201	T/R	Self-Test Output	STO
18	223	T/LG	Inferred Mileage Sensor	IMS
20	57	BK	Case Ground	CASE GND
21	67	GY/W	Idle Speed Control — Bypass Air	ISC — BPA
22	97	T/LG	Fuel Pump	FP
23	99	LG/BK	Knock Sensor	KS
24	330	Y/LG	Power Steering Pressure Switch	PSPS
25	310	Y/R	Air Charge Temperature Sensor	ACT
26	351	O/W	Reference Voltage	VREF
27	352	BR/LG	EGR Valve Position Sensor	EVP
29	94	DG/P	Heated Exhaust Oxygen Sensor	HEGO
30	481	GY/Y	Neutral Drive Switch	NDS
33	360	DG	EGR Vacuum Regulator (Solenoid)	EVR
36	324	Y/LG	Spark Output	SPOUT
37	361	R	Vehicle Power	VPWR
40	60	BK/LG	Power Ground	PWR GND
45	356	DB/LG	Manifold Absolute Pressure	MAP
46	359	BK/W	Signal Return	SIG RTN
47	355	DG/LG	Throttle Position Sensor	TP
48	100	W/R	Self-Test Input	STI
49	89	O	Heated Exhaust Oxygen Ground	HEGOG
51	190	W/R	Air Management 1 (TAB)	AM-1
56	349	DB	Profile Ignition Pick-Up	PIP
57	361	R	Vehicle Power	VPWR
58	96	T/O	Injector Bank 1 (Controls Engine Cylinder Numbers 1, 4, 5 and 8)	INJ BANK 1
59	95	T/R	Injector Bank 2 (Controls Engine Cylinder Numbers 2, 3, 6 and 7)	INJ BANK 2
60	60	BK/LG	Power Ground	PWR GND

Pin locations given for reference only. Probing 60 pin connector with DVOM probe will result in permanent damage to the pin connectors. Always probe as directed, using the Breakout Box.



CA8350-C

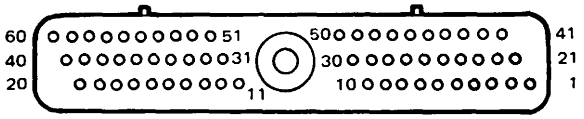
EEC-IV Module Connector Pin Usage

5.0L EFI

ECONOLINE

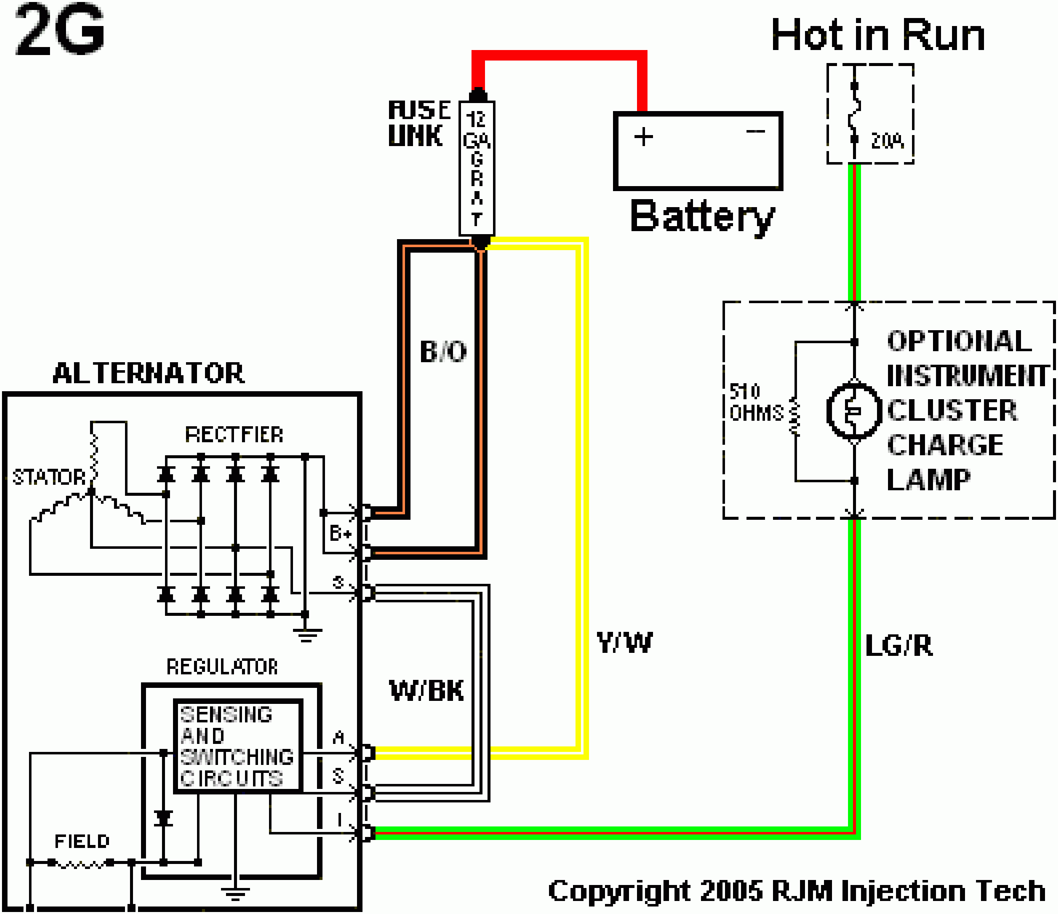
Pin	Circuit	Wire Color	Application	Abbreviations
1	38	BK/R	Keep Alive Power	KAPWR
3	145	BK	Vehicle Speed Sensor +	VSS DIF +
4	11	BK-Y	Ignition Diagnostic Monitor	IDM
6	146	BK	Vehicle Speed Sensor −	VSS DIF −
7	354	GR-Y	Engine Coolant Temperature Sensor	ECT
10	347	BK	A/C Cycling Switch	ACCS
11	200	BL	Air Management 2 (TAD)	AM 2
16	57	BK	Ignition Ground	IGN GND
17	201	BL-Y	Self-Test Output	STO
20	60	BK/W	Case Ground	CASE GND
21	67	GR/W	Idle Speed Control — Bypass Air	ISC-BPA
22	97	O	Fuel Pump	FP
23	99	BK	Knock Sensor	KS
24	331	R	Power Steering Pressure Switch	PSPS
25	310	R/BK	Air Charge Temperature Sensor	ACT
26	351	R	Reference Voltage	VREF
27	352	BR/GR	EGR Valve Position Sensor	EVP
29	94	GR/P	Heated Exhaust Gas Oxygen Sensor	HEGO
30	150	R	Neutral Drive Switch	NDS
33	360	Y/BL	EGR Vacuum Regulator (Solenoid)	EVR
36	324	Y/GR	Spark Output	SPOUT
37	361	R	Vehicle Power	VPWR
40	60	BK/W	Power Ground	PWR GND
45	356	BL/GR	Manifold Absolute Pressure	MAP
46	359	BK/W	Signal Return	SIG RTN
47	355	GR	Throttle Position Sensor	TP
48	100	BK/R	Self-Test Input	STI
49	89	O	Heated Exhaust Gas Oxygen Ground	HEGOG
51	190	Y	Air Management I (TAB)	AM I
56	349	BR	Profile Ignition Pick-Up	PIP
57	361	R	Vehicle Power	VPWR
58	96	O/BK	Injector Bank 1 (Controls Engine Cyl. Nos. 1, 4, 5, and 8)	INJ BANK 1
59	95	W	Injector Bank 2 (Controls Engine Cyl. Nos. 2, 3, 6, and 7)	INJ BANK 2
60	60	BK/W	Power Ground	PWR GND

Pin locations given for reference only. Probing 60 pin connector with DVOM probe will result in permanent damage to the pin connectors. Always probe as directed, using the Breakout Box.



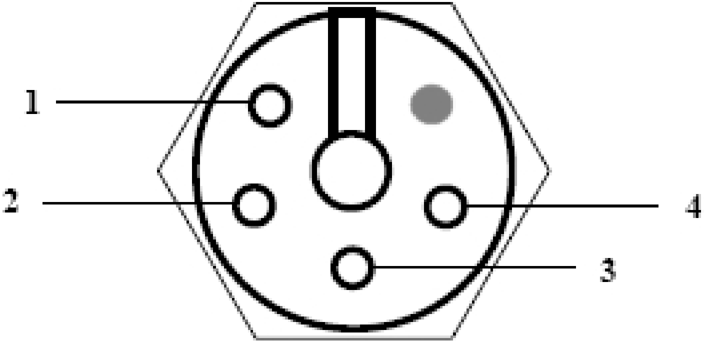
CA9899-A

2G



Copyright 2005 RJM Injection Tech

AOD Neutral Safety / Reverse Switch Wiring



(Top view of Neutral Safety switch)

Pin Number	Circuit Function
1 & 2	Reverse lights
3 & 4	Crank Only (Park and Neutral)

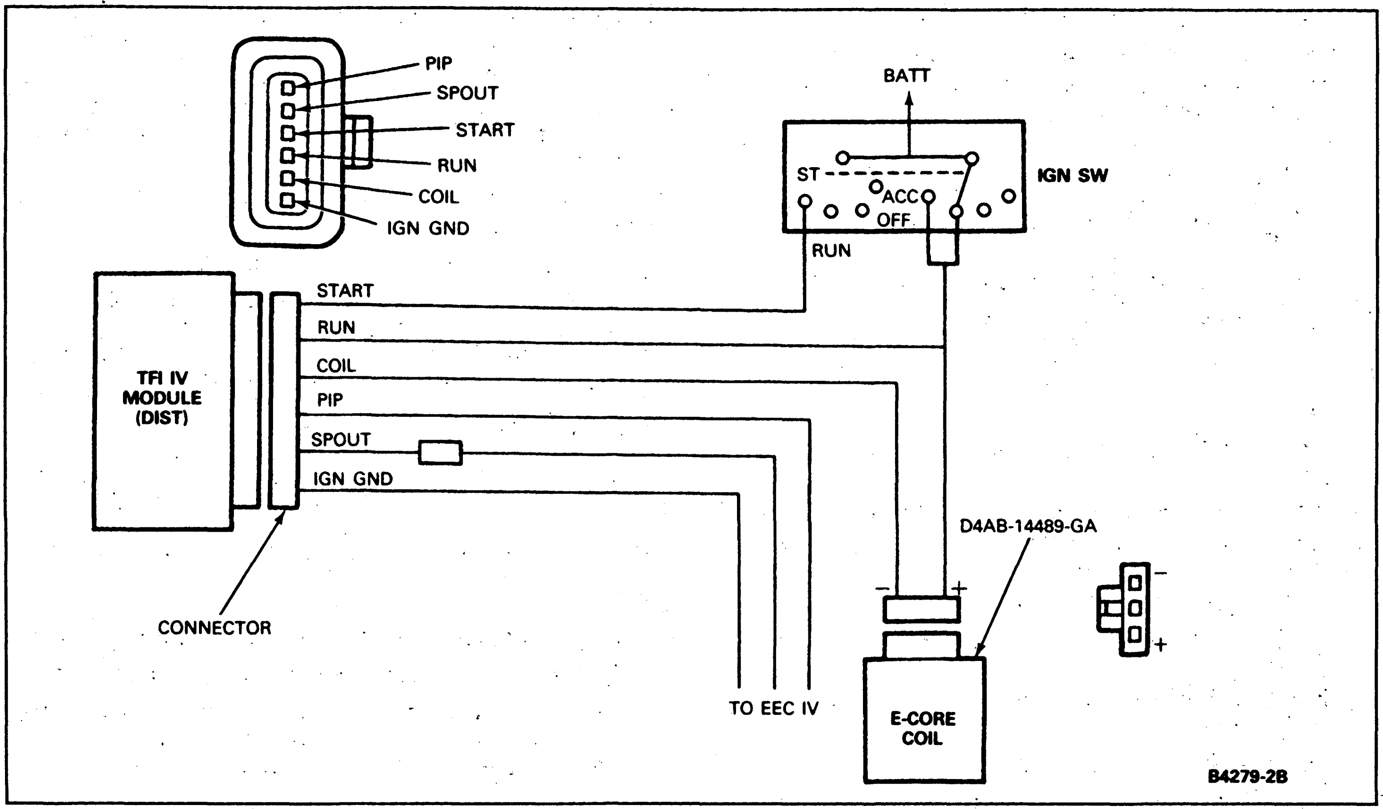


FIG. 11 Typical Thick Film Integrated (TFI) Ignition System

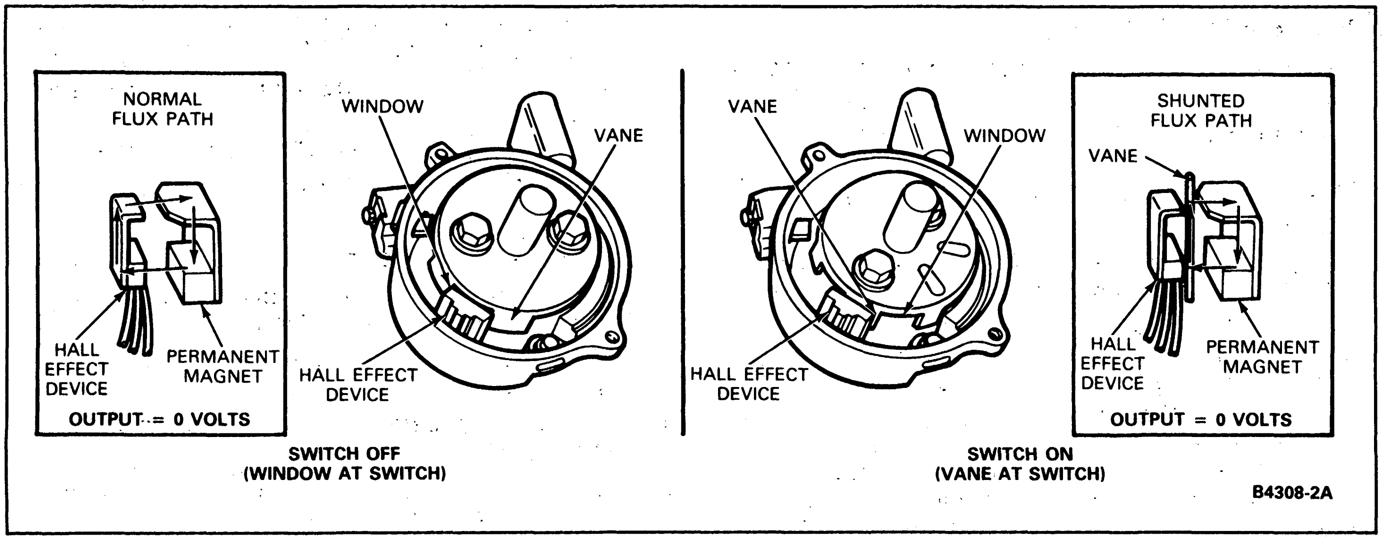


FIG. 12 Universal Distributor Ignition Switching

   a. Position distributor in engine with rotor and distributor aligning with previously scribed mark. Armature and stator assembly poles should also align (Fig. 9), if distributor is fully seated in block and properly installed. Crank engine if necessary to fully seat distributor in block.
   b. Install distributor hold-down bolt and clamp; do not tighten.

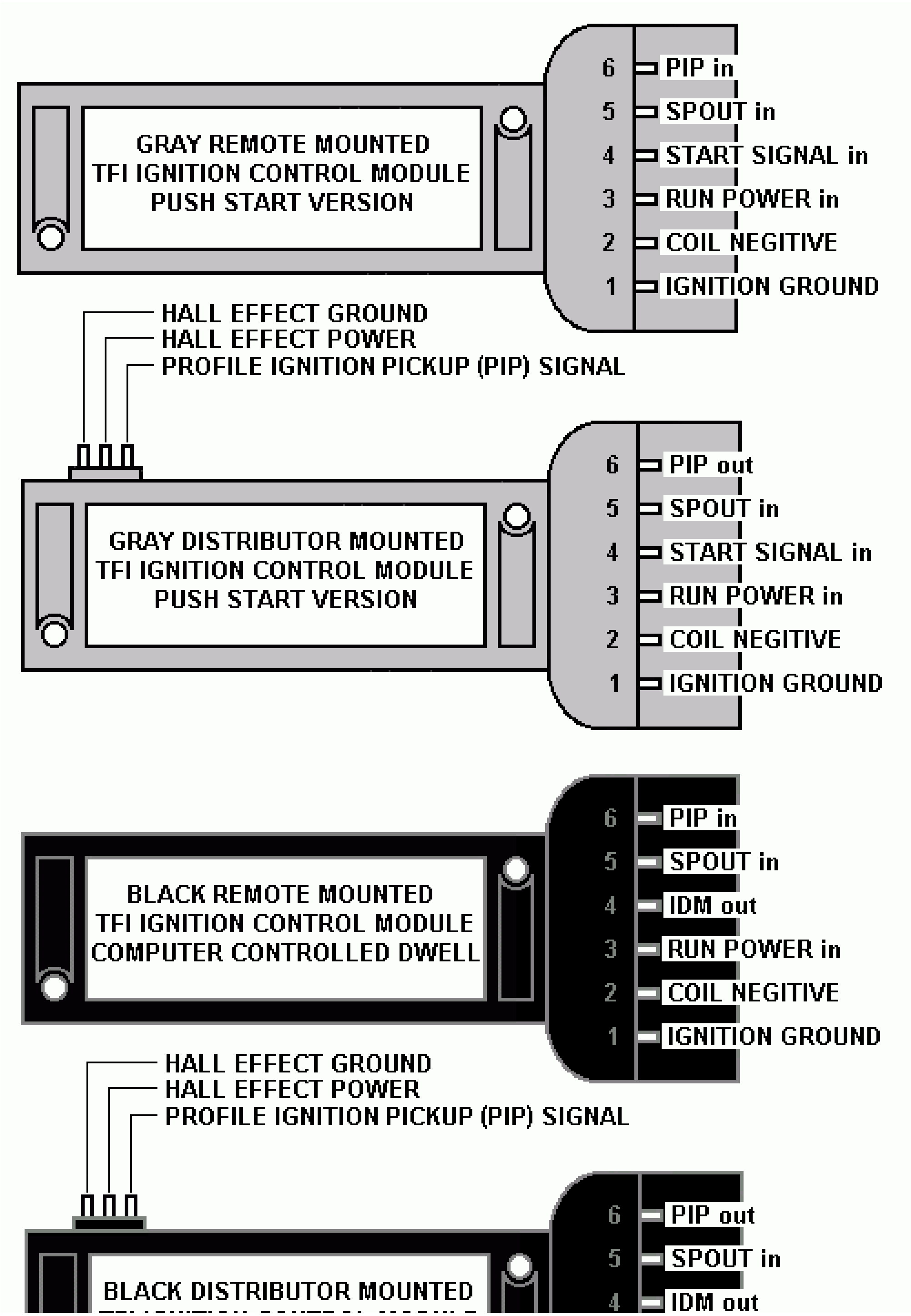
3. If engine was not rotated while distributor was removed and new distributor is being installed:
   a. Position distributor in engine with rotor aligned with previously scribed mark. If necessary, crank engine to fully seat distributor.
   b. Rotate engine until timing marks for correct initial timing align and rotor is pointing at number one cap terminal.
   c. Rotate distributor in block to align armature and stator assembly poles (Fig. 9).
   d. Install distributor hold-down bolt and clamp; do not tighten.
4. If in Steps 1-3 above, the armature and stator assembly poles cannot be aligned by rotating distributor in block, pull distributor out of block enough to disengage distributor gear and rotate distributor shaft to engage a different distributor gear tooth and install distributor. Repeat Steps 1 through 3 as necessary.

Ford TFI modules: Gray or Black?

Most technicians who deal with Ford driveability and no-start problems have become very familiar with the Thick Film Ignition (TFI) system. Ford started using the six-pin TFI module with the EEC-IV computer system in 1983, and for years it remained basically unchanged.

The early TFI system, which Ford calls the "Push Start" TFI system, uses a gray TFI module. Originally, the module was mounted on the distributor. In the late '80s Ford began to relocate it away from the distributor on some vehicles to provide better protection from the effects of engine heat, but system operation remained the same. It uses a Hall effect pickup (stator) in the distributor, which generates a battery voltage, 50% duty cycle square wave, called the PIP signal, to the EEC-U PCM and the TFI module. The PCM processes this signal and sends out another battery voltage, 50% duty cycle square wave, called the SPOUT signal, to the TFI module. As long as the TFI module is receiving a SPOUT signal, it will fire the coil at the rising edge of that signal (except during engine cranking, when SPOUT is ignored) and the vehicle will run with the amount of timing advance commanded by the computer. If the TFI module does not receive the SPOUT signal, it will fire the coil at the rising edge of the PIP signal, a nd the vehicle will run at base timing. This is true on all TFI systems.

Ignition dwell with the Push Start (gray module) system is controlled by the TFI module alone, and increases with engine rpm. The Ignition Diagnostic Monitor (IDM) signal on a Push Start TFI system comes from the coil negative circuit and is filtered through a 22k ohm resistor to pin #4 on the EEC-IV computer. The computer monitors this circuit to verify a coil firing for each PIP signal, and sets codes if it sees missing or erratic signals. Another feature that is unique to the Push Start TFI system is the start input on pin #4 of the module connector. This is wired into the starter relay trigger circuit, and signals the TFI module that the engine is cranking. When the module sees battery voltage on this circuit, the SPOUT signal is ignored.


GRAY REMOTE MOUNTED
TFI IGNITION CONTROL MODULE
PUSH START VERSION
6 PIP in
5 SPOUT in
4 START SIGNAL in
3 RUN POWER in
2 COIL NEGITIVE
1 IGNITION GROUND
HALL EFFECT GROUND
HALL EFFECT POWER
PROFILE IGNITION PICKUP (PIP) SIGNAL
GRAY DISTRIBUTOR MOUNTED
TFI IGNITION CONTROL MODULE
PUSH START VERSION
6 PIP out
5 SPOUT in
4 START SIGNAL in
3 RUN POWER in
2 COIL NEGITIVE
1 IGNITION GROUND
BLACK REMOTE MOUNTED
TFI IGNITION CONTROL MODULE
COMPUTER CONTROLLED DWELL
6 PIP in
5 SPOUT in
4 IDM out
3 RUN POWER in
2 COIL NEGITIVE
1 IGNITION GROUND
HALL EFFECT GROUND
HALL EFFECT POWER
PROFILE IGNITION PICKUP (PIP) SIGNAL
BLACK DISTRIBUTOR MOUNTED
6 PIP out
5 SPOUT in
4 IDM out

In the early '90s, Ford began using a different TFI system on certain vehicles--the Computer Controlled Dwell (CCD) TFI system. The TFI module on CCD TFI is always black in color. There are a few major differences between the two systems. As the name implies, with the CCD system, the computer controls primary dwell. The CCD TFI module still ungrounds (fires) the coil at the rising edge of the SPOUT signal, but now the falling edge of the SPOUT signal (which had no meaning to the Push Start TFI module) is used by the CCD TFI module to ground the coil. The PIP signal remains the same 50% duty cycle square wave, but SPOUT signal duty cycle varies according to how much dwell is desired by the computer.

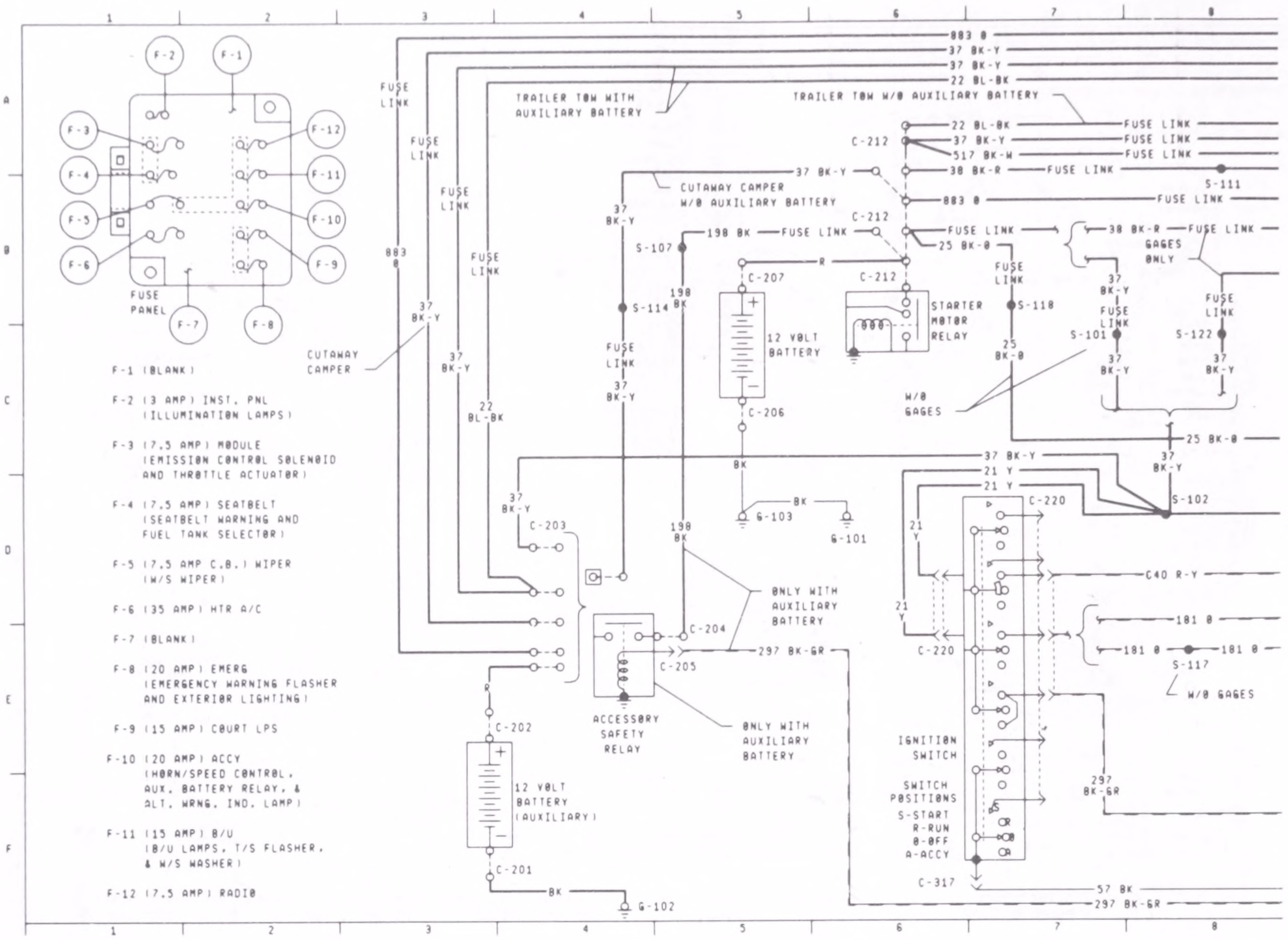
Another major difference between the two systems is the IDM circuit. Pin #4 on the CCD TFI module, which was the start circuit input on the Push Start TFI module, is now the IDM signal, sent directly from the TFL module to pin #4 on the EEC-IV computer. This signal is still a filtered (low voltage) version of the ignition primary waveform, but is filtered internally in the TFI module rather than through an external resistor. There isn't any start circuit input to the CCD TFI module; the module infers engine cranking from a low rpm input from the PIP signal.

Since these two TFI systems are so significantly different, yet so similar in appearance, parts application problems will inevitably occur. A gray Push Start TFI module will plug right into a CCD system, and vice versa. To make matters worse, parts books are often incorrect on TFI module applications! With the incorrect TFI module installed, the vehicle will run, but driveability and MIL (malfunction indicator lamp) problems will result. For instance, if a gray Push Start TFI module is installed in a CCD system, the computer will not be able to control ignition dwell, and the MIL will illuminate with memory codes for the IDM circuit set, as the gray TFL module is incapable of generating an IDM signal to the computer. If a black CCD TFI module is installed in a Push Start system, dwell will remain fixed, since the SPOUT signal duty cycle never changes. If in doubt about which TFI module belongs on a particular vehicle, consult the ignition system wiring diagram for the vehicle. If the wire going to pin #4 on the EEC-IV computer comes directly from pin #4 of the TFI module, it is a CCD system. If not, it is a Push Start system.

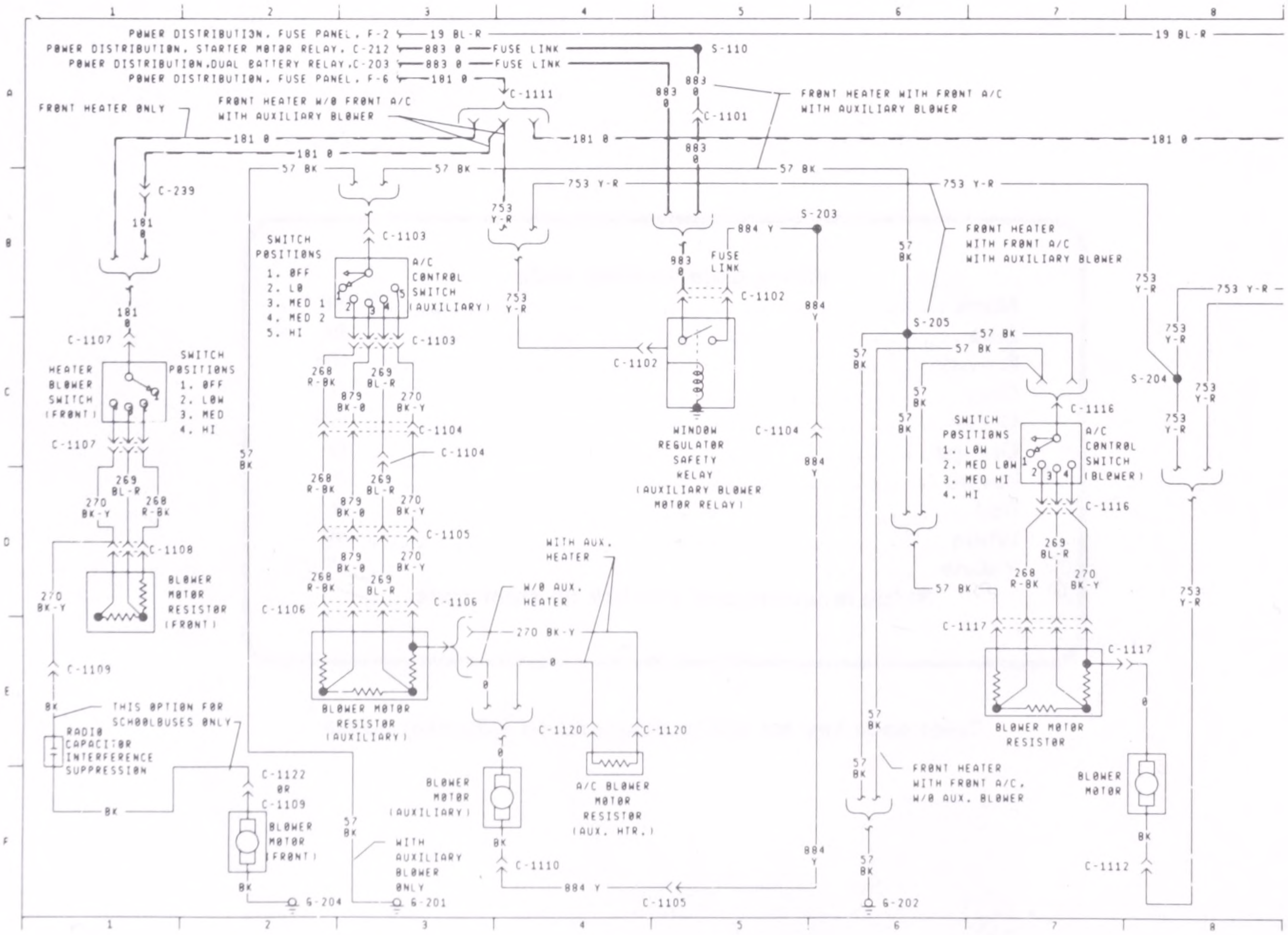
A final note: As with every other rule, there is an exception. Some 1.9L Central Fuel (throttle body) Injected Escorts and Tracers were built with black TFI modules that are not CCD modules. If you encounter one of these, check the engineering number on the module. A CCD TFI module engineering number always starts with E9 or higher.

Written by David Sill, IDENTIFIX Ford Team Leader. Dave is a certified Ford EEC, Advanced Engine Performance Specialist, ASE Master and L 1. He is a graduate of Ford's ASSET Program and has 14 years of diagnostic repair experience.

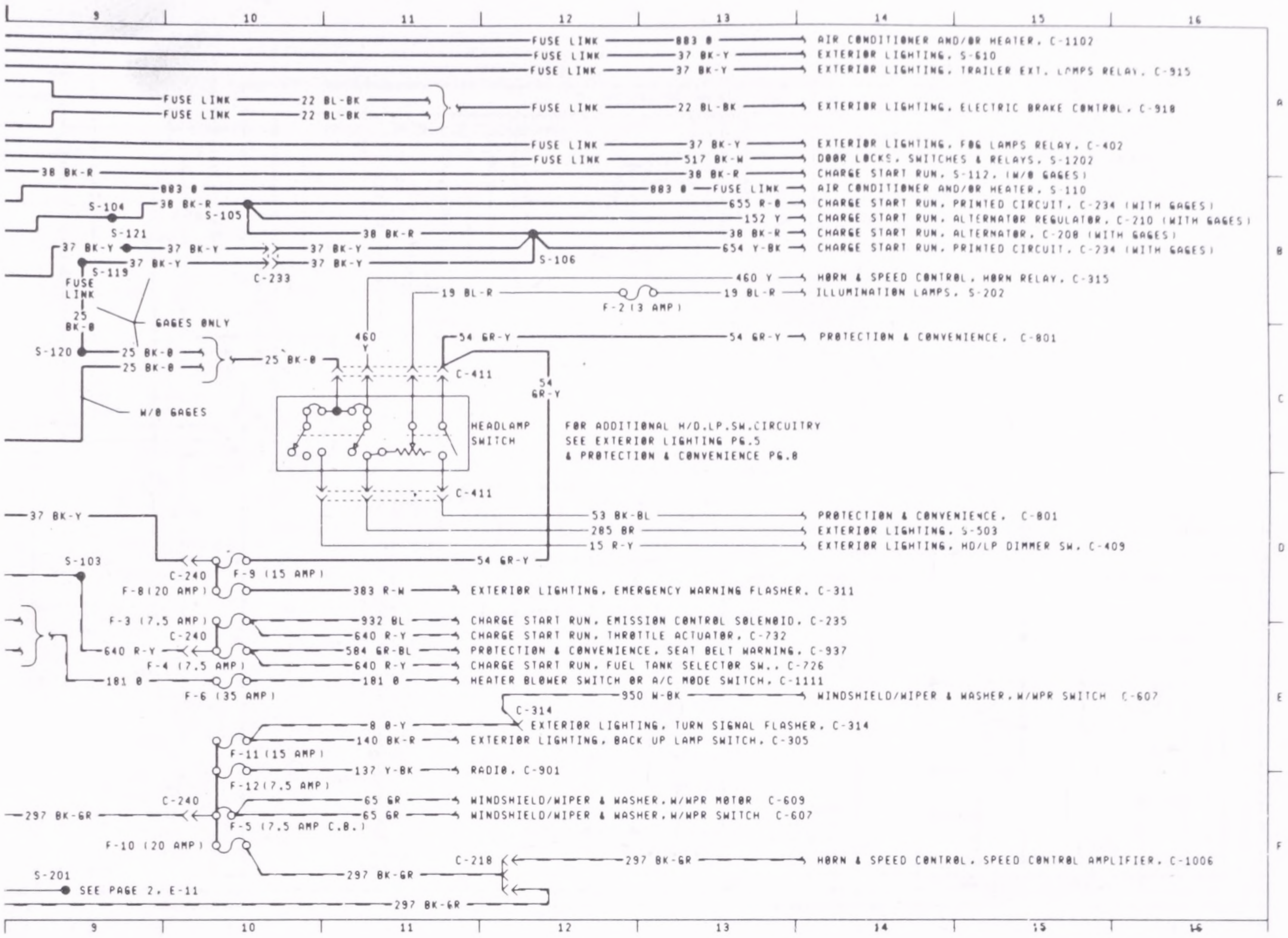
COPYRIGHT 2001 Adams Business Media COPYRIGHT 2001 Gale Group


FUSE PANEL
F-1 (BLANK)
F-2 (3 AMP) INST. PNL (ILLUMINATION LAMPS)
F-3 (7.5 AMP) MODULE (EMISSION CONTROL SOLENOID AND THROTTLE ACTUATOR)
F-4 (7.5 AMP) SEATBELT (SEATBELT WARNING AND FUEL TANK SELECTOR)
F-5 (7.5 AMP C.B.) WIPER (W/S WIPER)
F-6 (35 AMP) HTR A/C
F-7 (BLANK)
F-8 (20 AMP) EMERG (EMERGENCY WARNING FLASHER AND EXTERIOR LIGHTING)
F-9 (15 AMP) COURT LPS
F-10 (20 AMP) ACCY (HORN/SPEED CONTROL, AUX. BATTERY RELAY, & ALT. WRNG. IND. LAMP)
F-11 (15 AMP) B/U (B/U LAMPS, T/S FLASHER, & W/S WASHER)
F-12 (7.5 AMP) RADIO
TRAILER TOW WITH AUXILIARY BATTERY
TRAILER TOW W/O AUXILIARY BATTERY
CUTAWAY CAMPER W/O AUXILIARY BATTERY
CUTAWAY CAMPER
FUSE LINK
12 VOLT BATTERY
STARTER MOTOR RELAY
W/O GAGES
GAGES ONLY
ACCESSORY SAFETY RELAY
ONLY WITH AUXILIARY BATTERY
12 VOLT BATTERY (AUXILIARY)
IGNITION SWITCH
SWITCH POSITIONS S-START R-RUN O-OFF A-ACCY
883 O
37 BK-Y
22 BL-BK
517 BK-W
38 BK-R
25 BK-O
198 BK
21 Y
C40 R-Y
181 O
297 BK-GR
57 BK
C-201
C-202
C-203
C-204
C-205
C-206
C-207
C-212
C-220
C-317
S-101
S-102
S-107
S-111
S-114
S-117
S-118
S-122
G-101
G-102
G-103

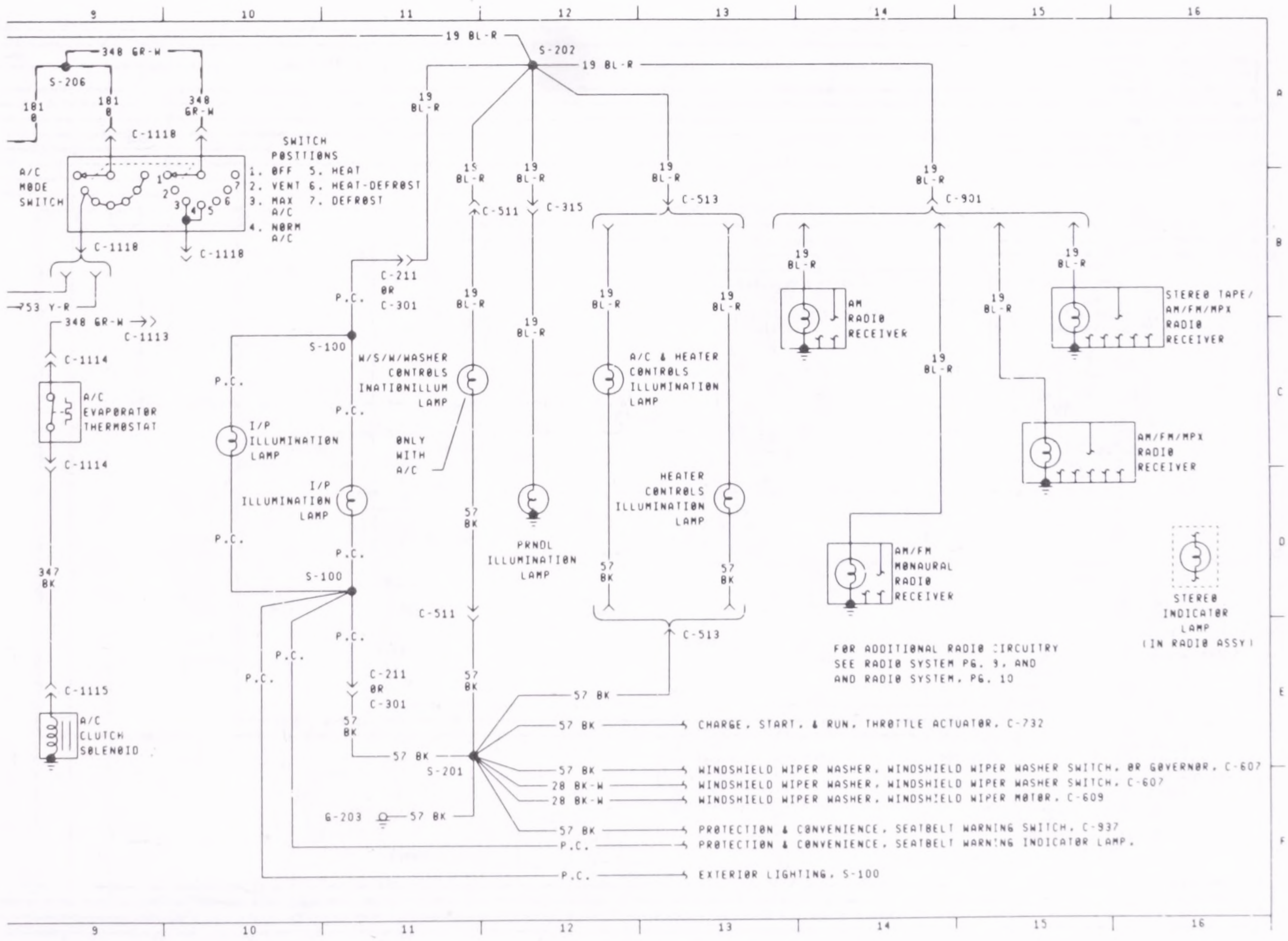
Wiring diagram — power distribution (1978 and later — typical) 1 of 2


POWER DISTRIBUTION, FUSE PANEL, F-2
POWER DISTRIBUTION, STARTER MOTOR RELAY, C-212
POWER DISTRIBUTION, DUAL BATTERY RELAY, C-203
POWER DISTRIBUTION, FUSE PANEL, F-6
FRONT HEATER ONLY
FRONT HEATER W/O FRONT A/C WITH AUXILIARY BLOWER
FRONT HEATER WITH FRONT A/C WITH AUXILIARY BLOWER
FRONT HEATER WITH FRONT A/C WITH AUXILIARY BLOWER
FRONT HEATER WITH FRONT A/C, W/O AUX. BLOWER
HEATER BLOWER SWITCH (FRONT)
SWITCH POSITIONS 1. OFF 2. LOW 3. MED 4. HI
A/C CONTROL SWITCH (AUXILIARY)
SWITCH POSITIONS 1. OFF 2. LO 3. MED 1 4. MED 2 5. HI
A/C CONTROL SWITCH (BLOWER)
SWITCH POSITIONS 1. LOW 2. MED LOW 3. MED HI 4. HI
BLOWER MOTOR RESISTOR (FRONT)
BLOWER MOTOR RESISTOR (AUXILIARY)
BLOWER MOTOR RESISTOR
WINDOW REGULATOR SAFETY RELAY (AUXILIARY BLOWER MOTOR RELAY)
WITH AUX. HEATER
W/O AUX. HEATER
A/C BLOWER MOTOR RESISTOR (AUX. HTR.)
BLOWER MOTOR (AUXILIARY)
BLOWER MOTOR (FRONT)
BLOWER MOTOR
THIS OPTION FOR SCHOOLBUSES ONLY
RADIO CAPACITOR INTERFERENCE SUPPRESSION
WITH AUXILIARY BLOWER ONLY
FUSE LINK
19 BL-R
883 O
181 O
57 BK
753 Y-R
884 Y
268 R-BK
269 BL-R
270 BK-Y
879 BK-O
C-239
C-1101
C-1102
C-1103
C-1104
C-1105
C-1106
C-1107
C-1108
C-1109
C-1110
C-1111
C-1112
C-1116
C-1117
C-1120
C-1122 OR C-1109
S-110
S-203
S-204
S-205
G-201
G-202
G-204

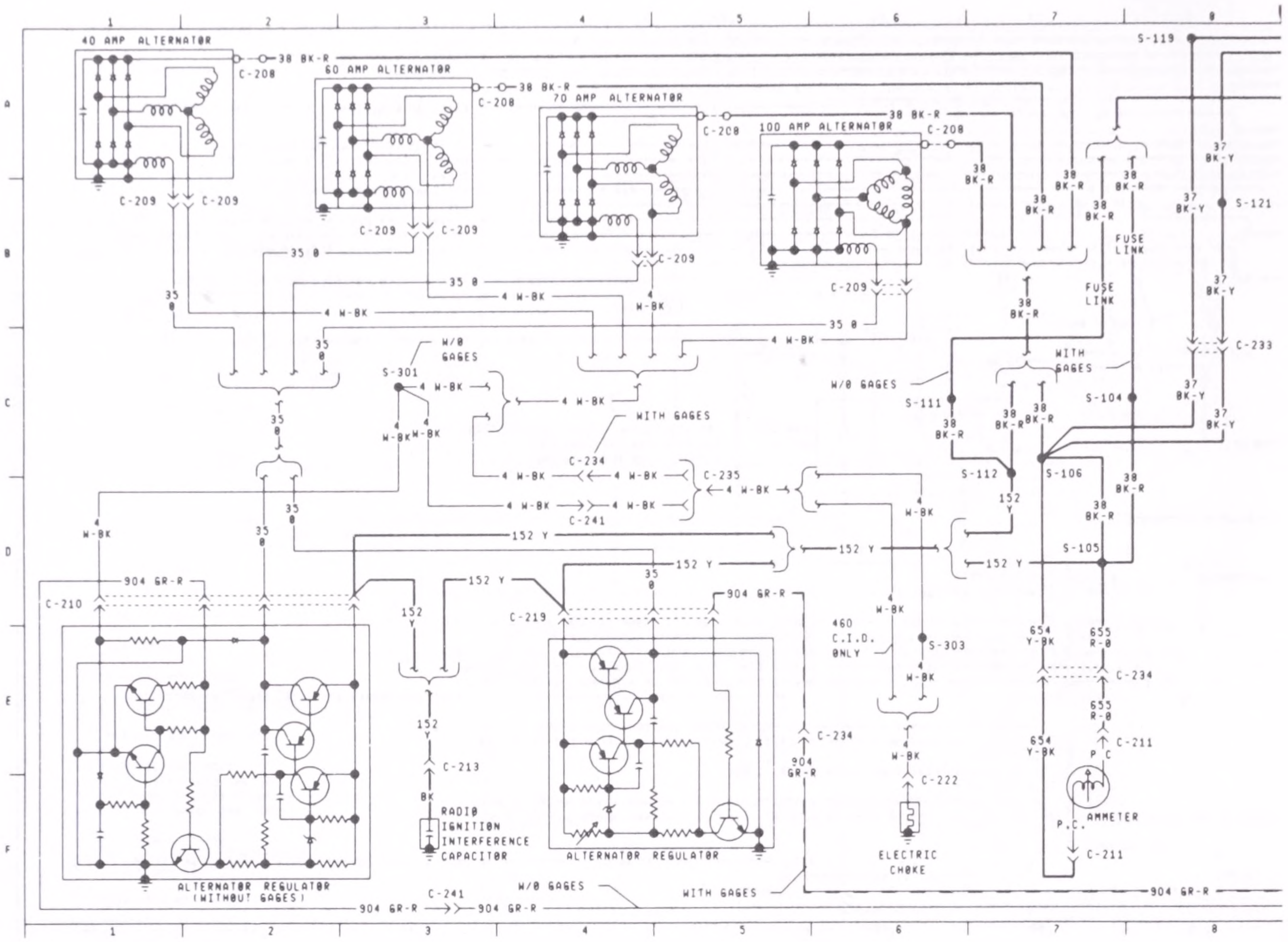
Wiring diagram — heater and air conditioning system (1978 and later — typical)


FUSE LINK — 883 0 — AIR CONDITIONER AND/OR HEATER, C-1102
FUSE LINK — 37 BK-Y — EXTERIOR LIGHTING, S-610
FUSE LINK — 37 BK-Y — EXTERIOR LIGHTING, TRAILER EXT. LAMPS RELAY, C-915
FUSE LINK — 22 BL-BK
FUSE LINK — 22 BL-BK
FUSE LINK — 22 BL-BK — EXTERIOR LIGHTING, ELECTRIC BRAKE CONTROL, C-918
FUSE LINK — 37 BK-Y — EXTERIOR LIGHTING, FOG LAMPS RELAY, C-402
FUSE LINK — 517 BK-W — DOOR LOCKS, SWITCHES & RELAYS, S-1202
38 BK-R — CHARGE START RUN, S-112, (W/O GAGES)
883 0 — FUSE LINK — AIR CONDITIONER AND/OR HEATER, S-110
655 R-O — CHARGE START RUN, PRINTED CIRCUIT, C-234 (WITH GAGES)
152 Y — CHARGE START RUN, ALTERNATOR REGULATOR, C-210 (WITH GAGES)
38 BK-R — CHARGE START RUN, ALTERNATOR, C-208 (WITH GAGES)
654 Y-BK — CHARGE START RUN, PRINTED CIRCUIT, C-234 (WITH GAGES)
S-104
S-105
S-121
S-106
S-119
C-233
FUSE LINK
25 BK-O
GAGES ONLY
S-120
W/O GAGES
460 Y — HORN & SPEED CONTROL, HORN RELAY, C-315
19 BL-R — F-2 (3 AMP) — 19 BL-R — ILLUMINATION LAMPS, S-202
54 GR-Y — PROTECTION & CONVENIENCE, C-801
C-411
HEADLAMP SWITCH
FOR ADDITIONAL H/D.LP.SW.CIRCUITRY SEE EXTERIOR LIGHTING PG.5 & PROTECTION & CONVENIENCE PG.8
53 BK-BL — PROTECTION & CONVENIENCE, C-801
285 BR — EXTERIOR LIGHTING, S-503
15 R-Y — EXTERIOR LIGHTING, HD/LP DIMMER SW, C-409
37 BK-Y
S-103
C-240
F-9 (15 AMP)
F-8 (20 AMP)
383 R-W — EXTERIOR LIGHTING, EMERGENCY WARNING FLASHER, C-311
F-3 (7.5 AMP)
932 BL — CHARGE START RUN, EMISSION CONTROL SOLENOID, C-235
640 R-Y — CHARGE START RUN, THROTTLE ACTUATOR, C-732
584 GR-BL — PROTECTION & CONVENIENCE, SEAT BELT WARNING, C-937
F-4 (7.5 AMP)
640 R-Y — CHARGE START RUN, FUEL TANK SELECTOR SW., C-726
181 O — HEATER BLOWER SWITCH OR A/C MODE SWITCH, C-1111
F-6 (35 AMP)
950 W-BK — WINDSHIELD/WIPER & WASHER, W/WPR SWITCH C-607
C-314
8 O-Y — EXTERIOR LIGHTING, TURN SIGNAL FLASHER, C-314
140 BK-R — EXTERIOR LIGHTING, BACK UP LAMP SWITCH, C-305
F-11 (15 AMP)
137 Y-BK — RADIO, C-901
F-12 (7.5 AMP)
65 GR — WINDSHIELD/WIPER & WASHER, W/WPR MOTOR C-609
65 GR — WINDSHIELD/WIPER & WASHER, W/WPR SWITCH C-607
297 BK-GR
F-5 (7.5 AMP C.B.)
F-10 (20 AMP)
C-218
297 BK-GR — HORN & SPEED CONTROL, SPEED CONTROL AMPLIFIER, C-1006
S-201
SEE PAGE 2, E-11
297 BK-GR
9
10
11
12
13
14
15
16
A
B
C
D
E
F

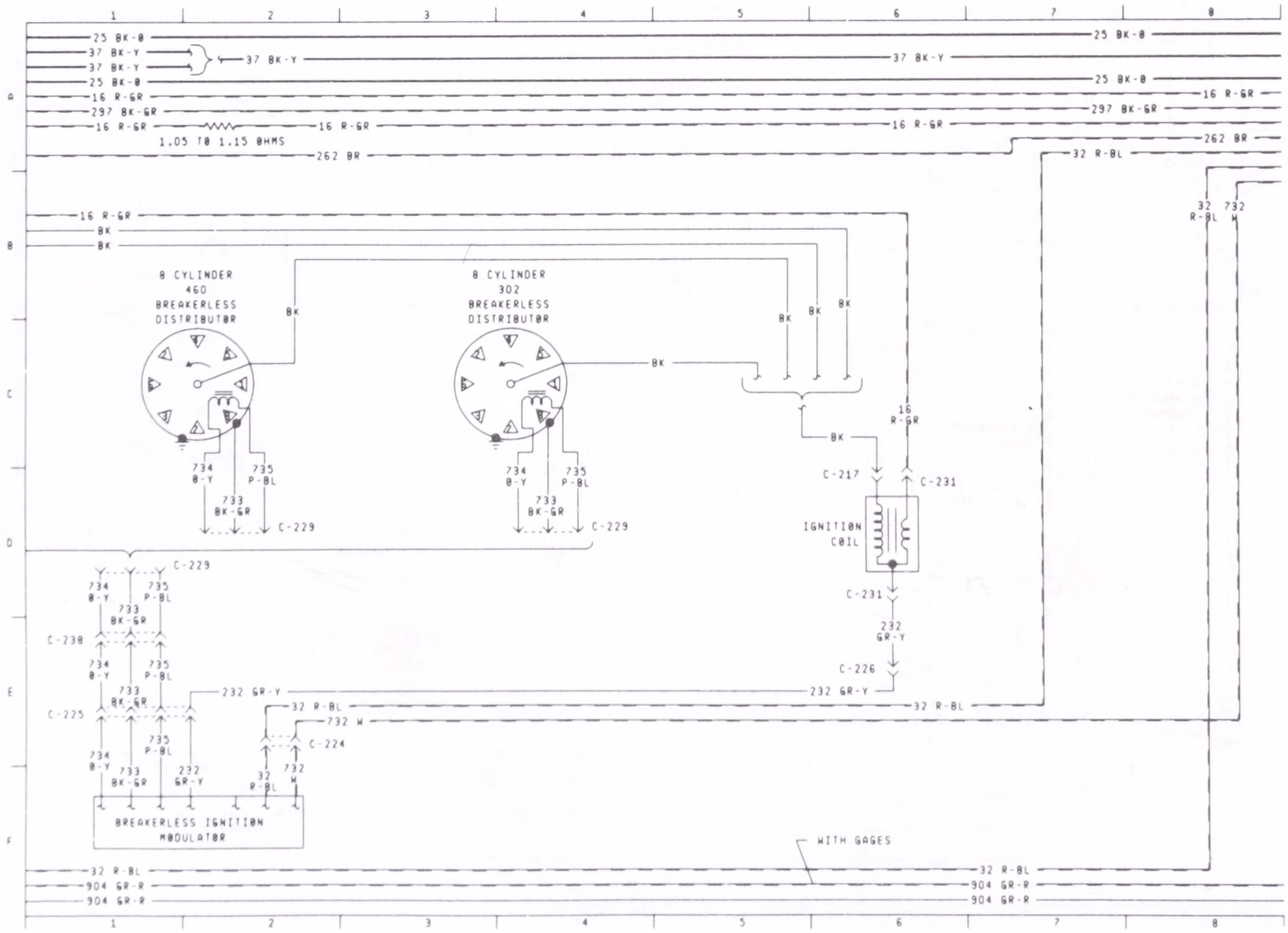
Wiring diagram — power distribution (1978 and later — typical) 2 of 2


19 BL-R
S-202
348 GR-W
S-206
181 O
348 GR-W
C-1118
A/C MODE SWITCH
SWITCH POSITIONS
1. OFF 5. HEAT
2. VENT 6. HEAT-DEFROST
3. MAX A/C 7. DEFROST
4. NORM A/C
C-1118
53 Y-R
348 GR-W
C-1113
C-1114
A/C EVAPORATOR THERMOSTAT
347 BK
C-1115
A/C CLUTCH SOLENOID
C-511
C-315
C-513
C-901
C-211 OR C-301
P.C.
S-100
W/S/W/WASHER CONTROLS INATIONILLUM LAMP
ONLY WITH A/C
I/P ILLUMINATION LAMP
I/P ILLUMINATION LAMP
PRNDL ILLUMINATION LAMP
A/C & HEATER CONTROLS ILLUMINATION LAMP
HEATER CONTROLS ILLUMINATION LAMP
AM RADIO RECEIVER
STEREO TAPE/AM/FM/MPX RADIO RECEIVER
AM/FM/MPX RADIO RECEIVER
AM/FM MONAURAL RADIO RECEIVER
STEREO INDICATOR LAMP (IN RADIO ASSY)
FOR ADDITIONAL RADIO CIRCUITRY SEE RADIO SYSTEM PG. 9, AND AND RADIO SYSTEM, PG. 10
57 BK
S-201
G-203
57 BK — CHARGE, START, & RUN, THROTTLE ACTUATOR, C-732
57 BK — WINDSHIELD WIPER WASHER, WINDSHIELD WIPER WASHER SWITCH, OR GOVERNOR, C-607
28 BK-W — WINDSHIELD WIPER WASHER, WINDSHIELD WIPER WASHER SWITCH, C-607
28 BK-W — WINDSHIELD WIPER WASHER, WINDSHIELD WIPER MOTOR, C-609
57 BK — PROTECTION & CONVENIENCE, SEATBELT WARNING SWITCH, C-937
P.C. — PROTECTION & CONVENIENCE, SEATBELT WARNING INDICATOR LAMP.
P.C. — EXTERIOR LIGHTING, S-100
9
10
11
12
13
14
15
16
A
B
C
D
E
F

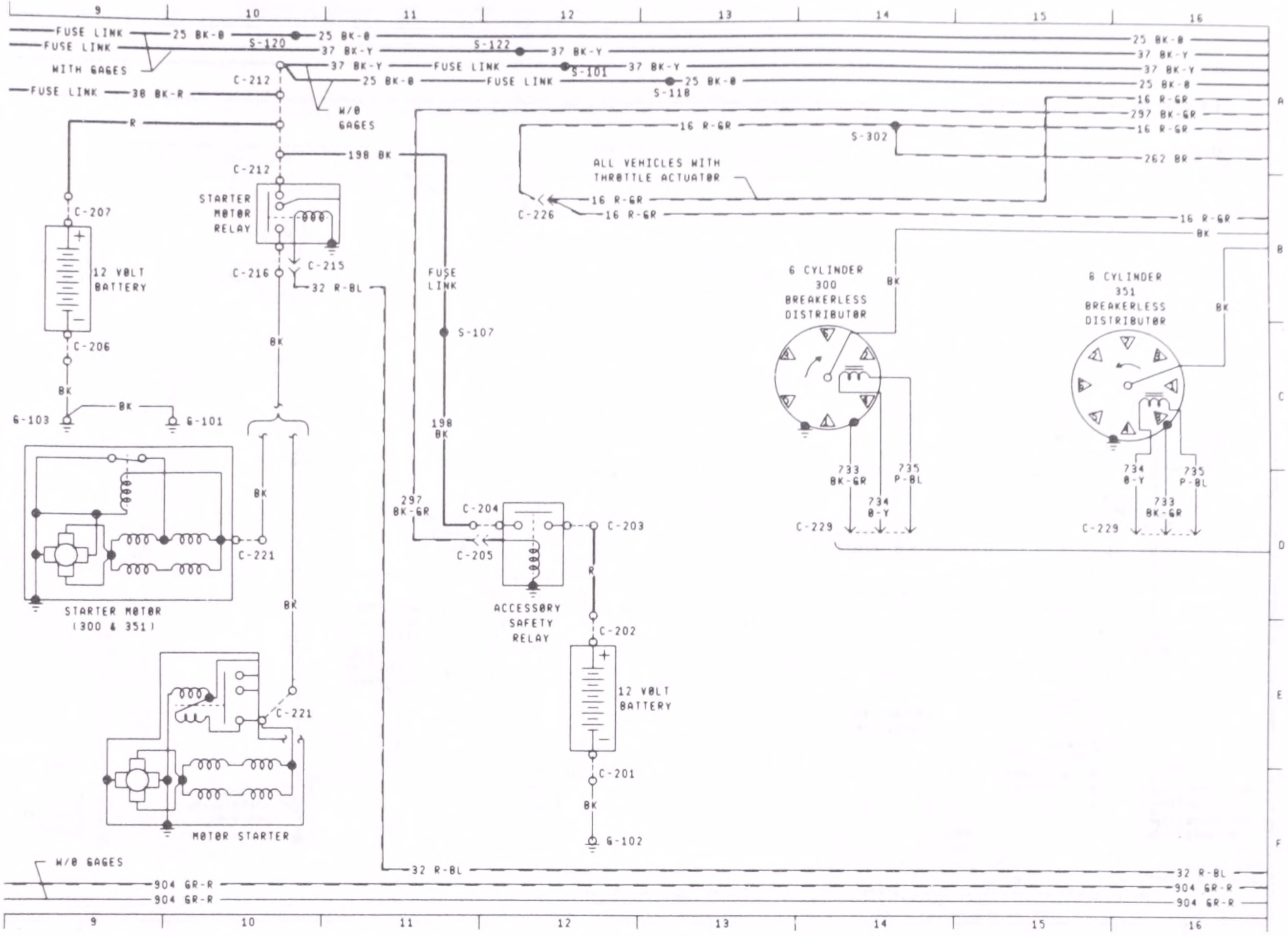
Wiring diagram — dash panel lights (1978 and later — typical)



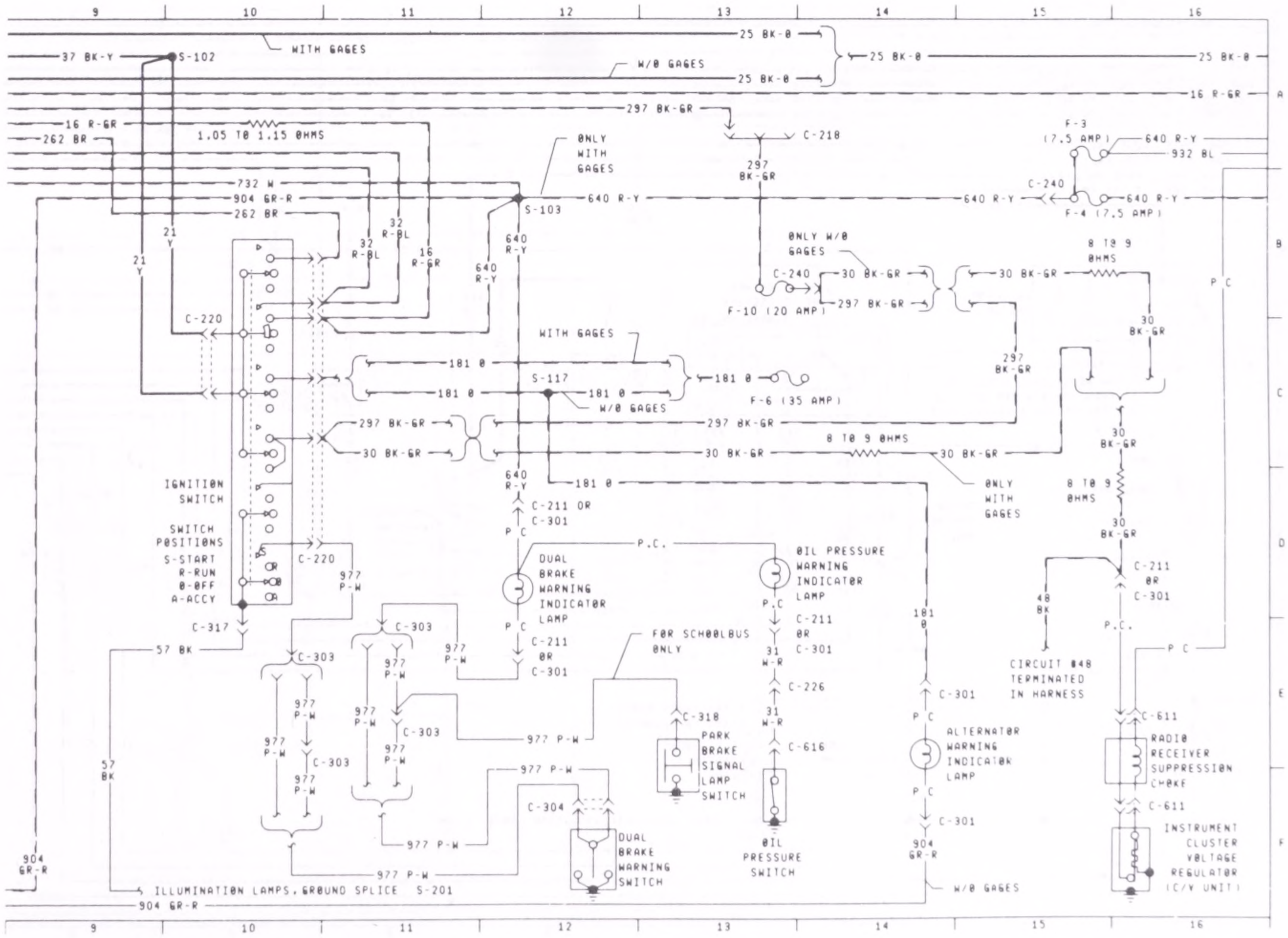
Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 1 of 6



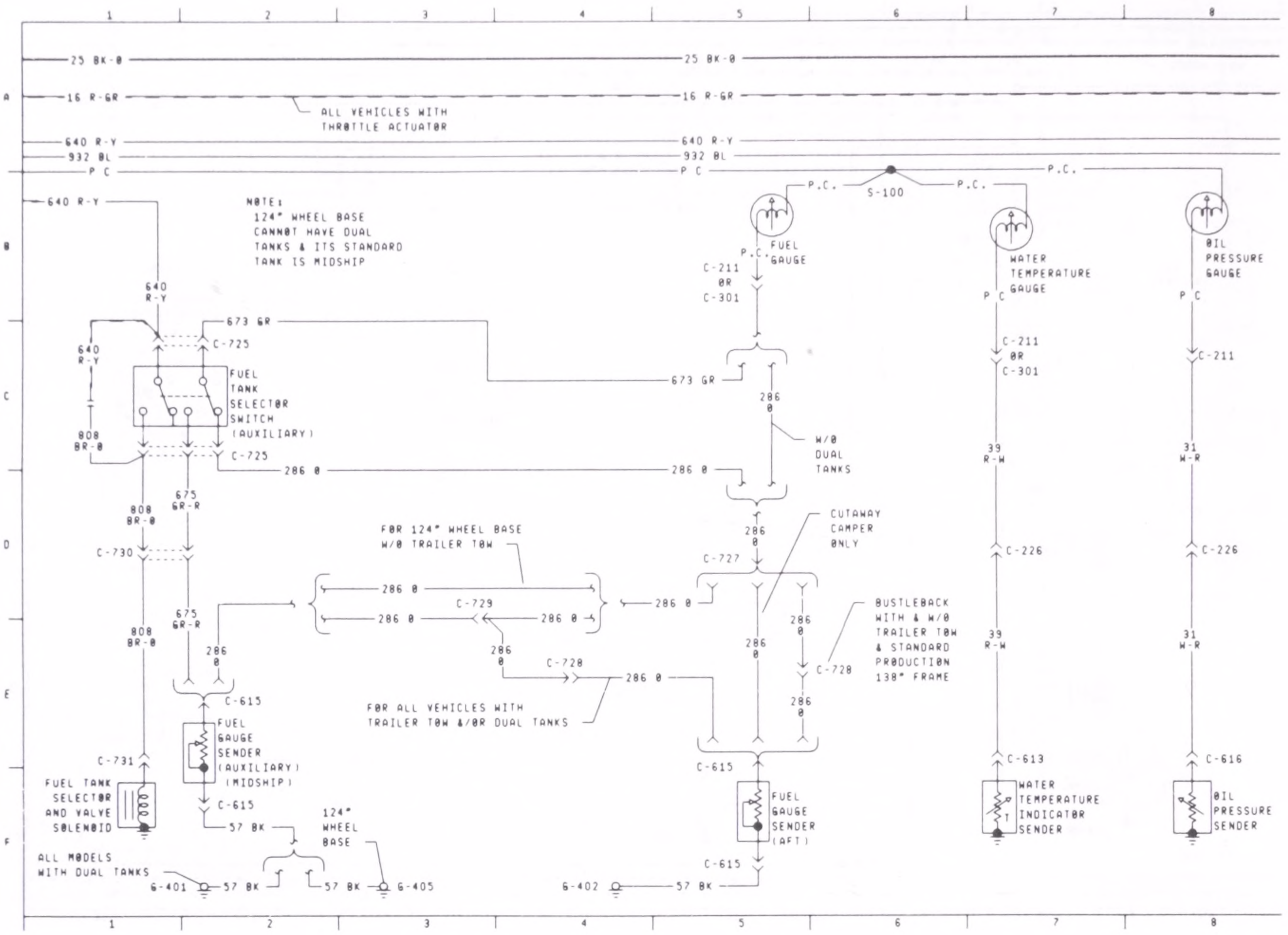
Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 3 of 6



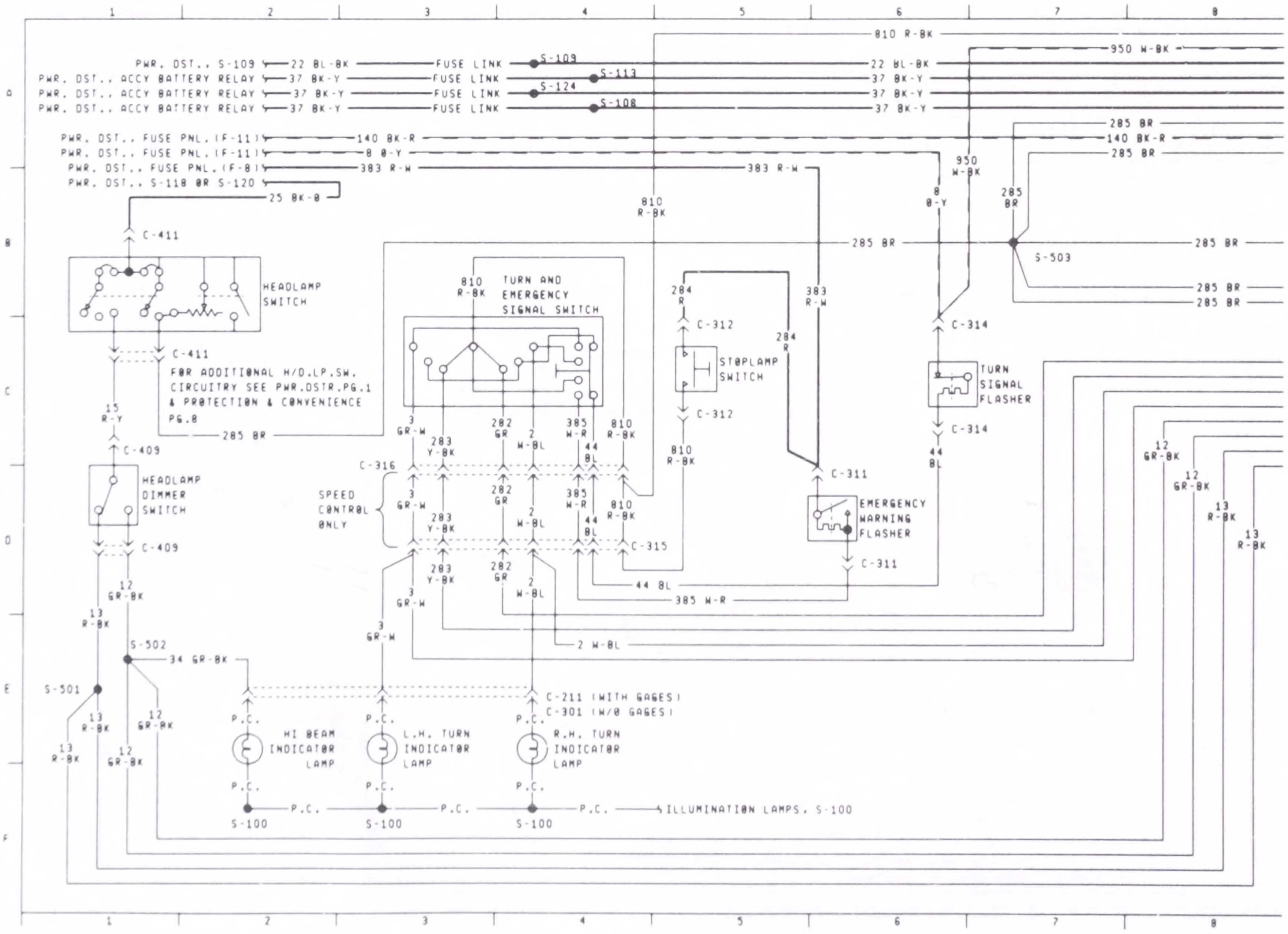
Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 2 of 6



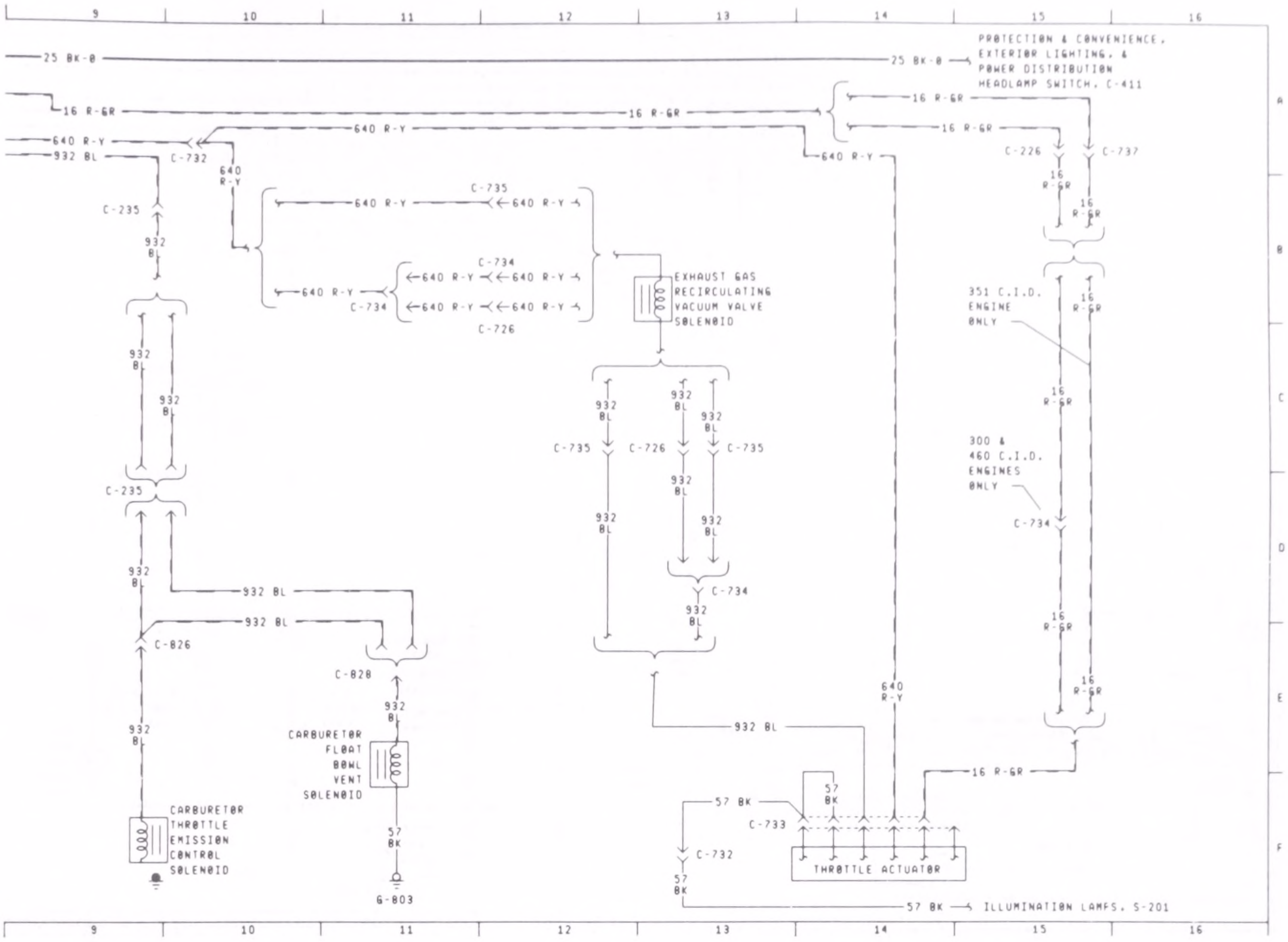
Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 4 of 6


25 BK-O
16 R-GR
ALL VEHICLES WITH THROTTLE ACTUATOR
640 R-Y
932 BL
P C
S-100
NOTE: 124" WHEEL BASE CANNOT HAVE DUAL TANKS & ITS STANDARD TANK IS MIDSHIP
FUEL GAUGE
WATER TEMPERATURE GAUGE
OIL PRESSURE GAUGE
C-211 OR C-301
C-211
673 GR
G-725
FUEL TANK SELECTOR SWITCH (AUXILIARY)
808 BR-O
675 GR-R
286 O
W/O DUAL TANKS
39 R-W
31 W-R
CUTAWAY CAMPER ONLY
FOR 124" WHEEL BASE W/O TRAILER TOW
C-727
C-729
C-728
C-226
C-730
BUSTLEBACK WITH & W/O TRAILER TOW & STANDARD PRODUCTION 138" FRAME
C-615
FOR ALL VEHICLES WITH TRAILER TOW &/OR DUAL TANKS
FUEL GAUGE SENDER (AUXILIARY) (MIDSHIP)
C-731
FUEL TANK SELECTOR AND VALVE SOLENOID
124" WHEEL BASE
57 BK
FUEL GAUGE SENDER (AFT)
C-613
WATER TEMPERATURE INDICATOR SENDER
C-616
OIL PRESSURE SENDER
ALL MODELS WITH DUAL TANKS
G-401
G-405
G-402

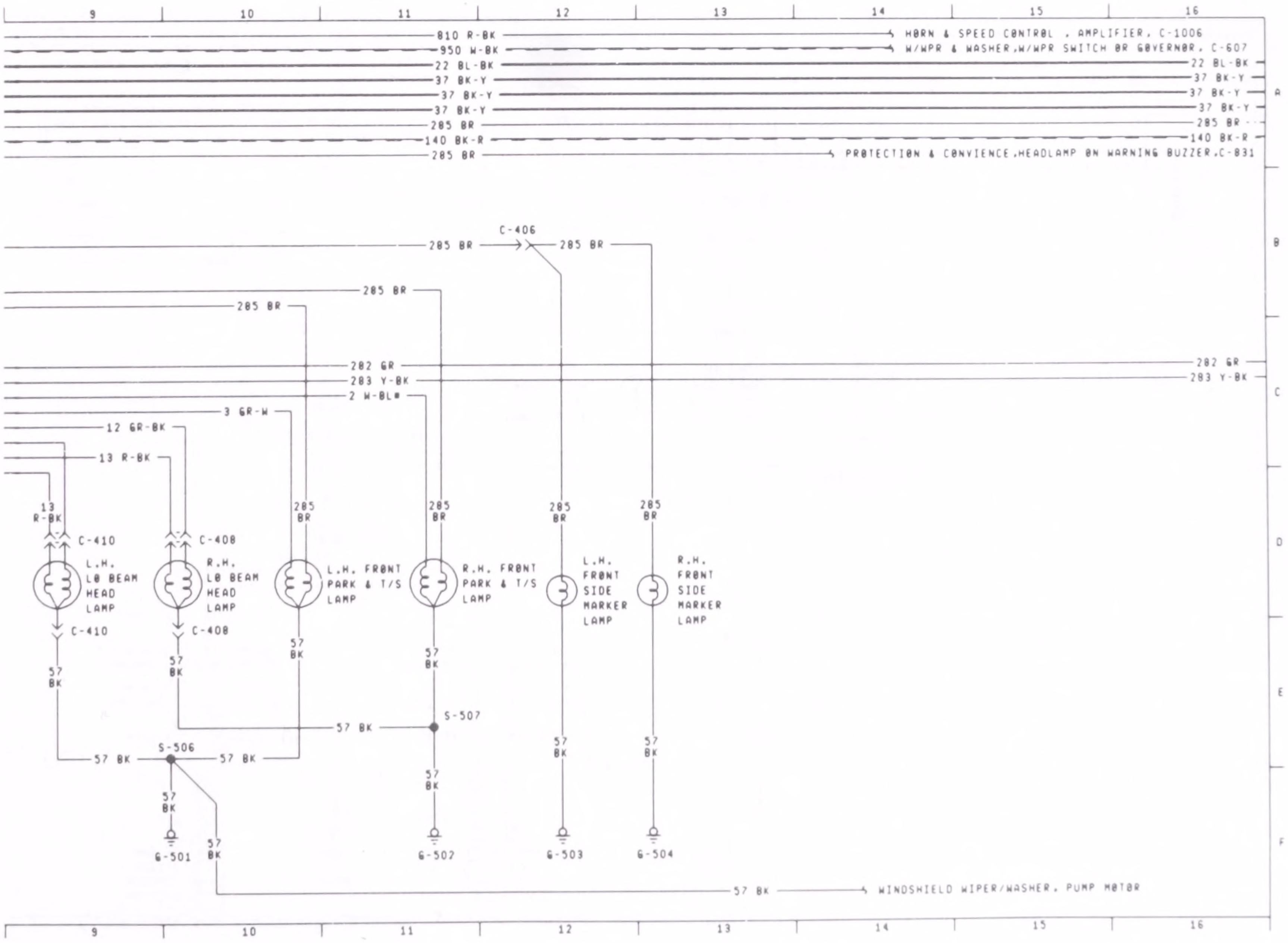
Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 5 of 6



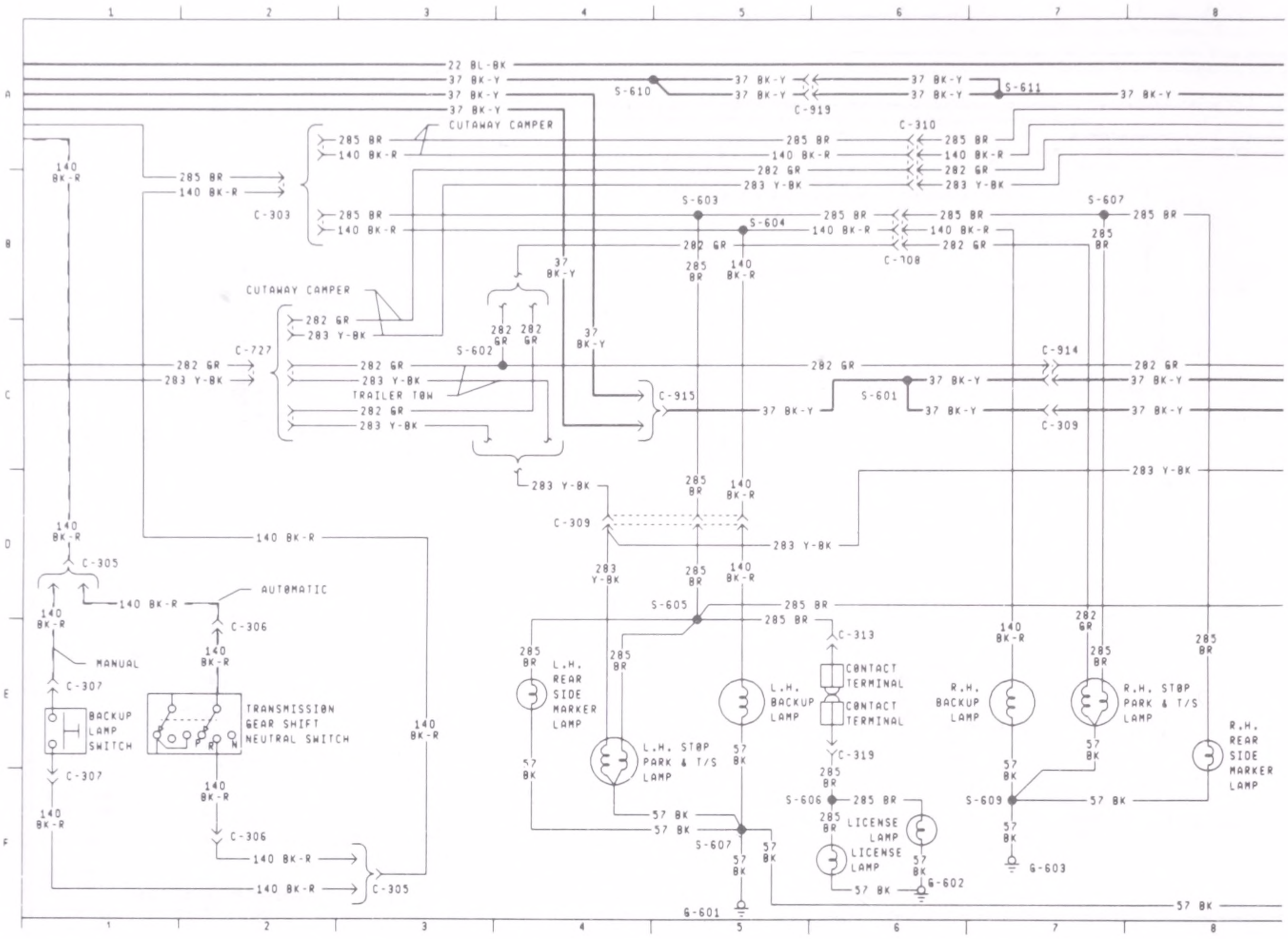
Wiring diagram — exterior lights (1978 and later — typical) 1 of 4


25 BK-O
PROTECTION & CONVENIENCE, EXTERIOR LIGHTING, & POWER DISTRIBUTION HEADLAMP SWITCH, C-411
16 R-GR
640 R-Y
932 BL
C-732
C-235
C-735
C-734
C-726
EXHAUST GAS RECIRCULATING VACUUM VALVE SOLENOID
C-226
C-737
351 C.I.D. ENGINE ONLY
300 & 460 C.I.D. ENGINES ONLY
C-826
C-828
CARBURETOR FLOAT BOWL VENT SOLENOID
CARBURETOR THROTTLE EMISSION CONTROL SOLENOID
57 BK
G-803
C-733
THROTTLE ACTUATOR
ILLUMINATION LAMPS, S-201
9
10
11
12
13
14
15
16
A
B
C
D
E
F

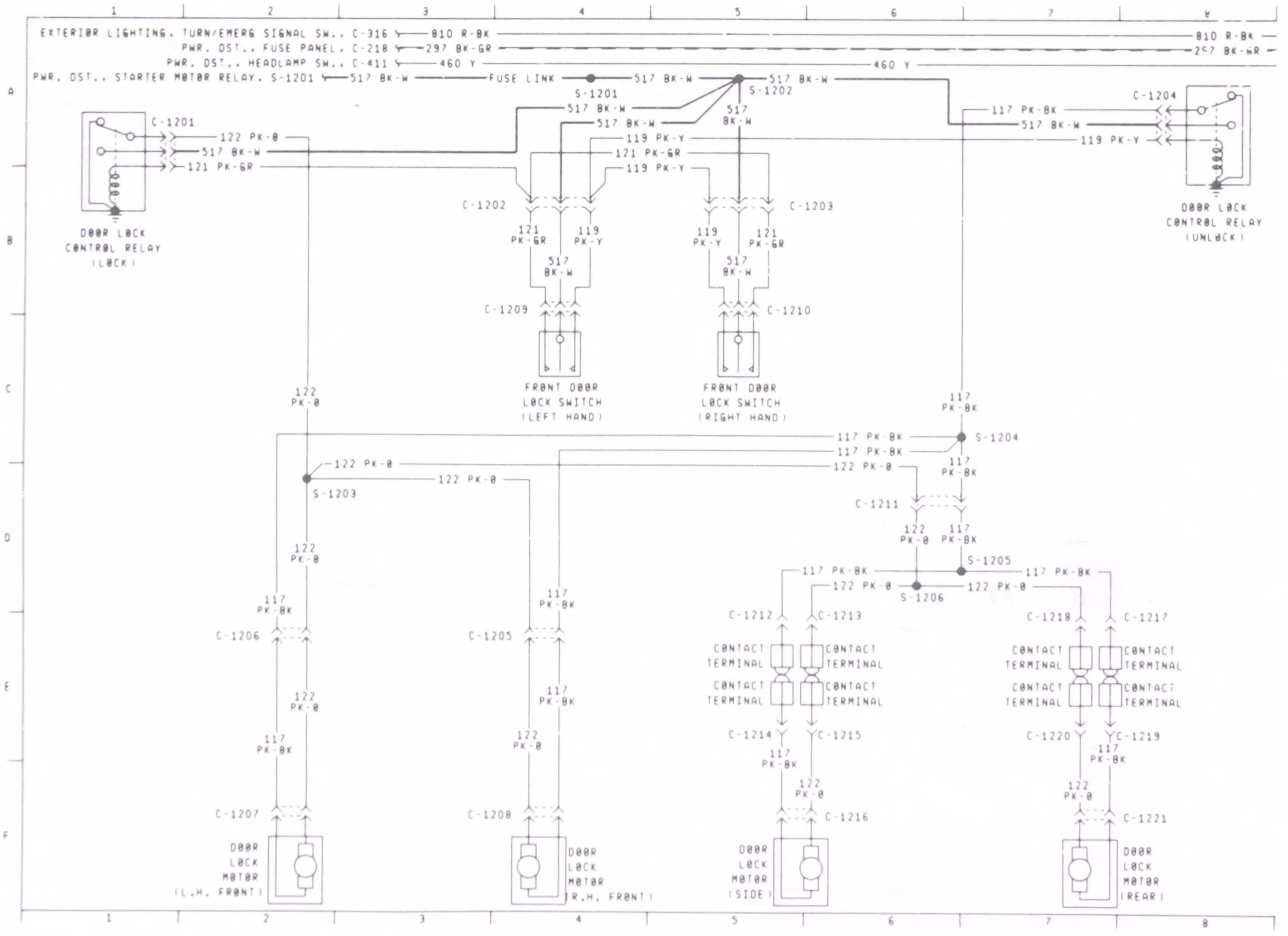
FF Wiring diagram — charging, starting and ignition systems (1978 and later — typical) 6 of 6


810 R-BK
HORN & SPEED CONTROL, AMPLIFIER, C-1006
950 W-BK
W/WPR & WASHER,W/WPR SWITCH OR GOVERNOR, C-607
22 BL-BK
37 BK-Y
285 BR
140 BK-R
PROTECTION & CONVIENCE,HEADLAMP ON WARNING BUZZER,C-831
C-406
282 GR
283 Y-BK
2 W-BL#
3 GR-W
12 GR-BK
13 R-BK
C-410
C-408
L.H. LO BEAM HEAD LAMP
R.H. LO BEAM HEAD LAMP
L.H. FRONT PARK & T/S LAMP
R.H. FRONT PARK & T/S LAMP
L.H. FRONT SIDE MARKER LAMP
R.H. FRONT SIDE MARKER LAMP
57 BK
S-507
S-506
G-501
G-502
G-503
G-504
WINDSHIELD WIPER/WASHER, PUMP MOTOR
9
10
11
12
13
14
15
16
A
B
C
D
E
F

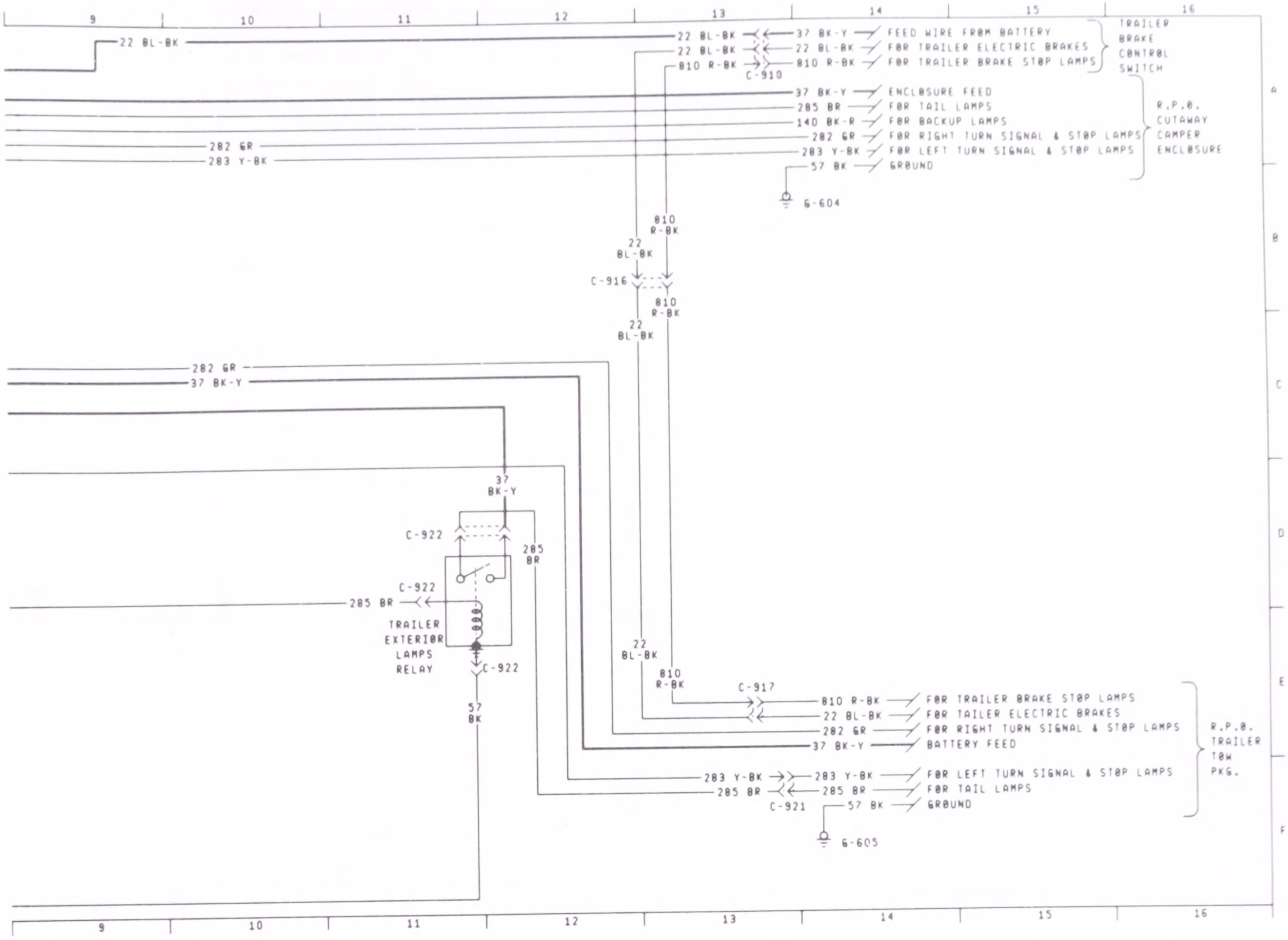
Wiring diagram — exterior lights (1978 and later — typical) 2 of 4



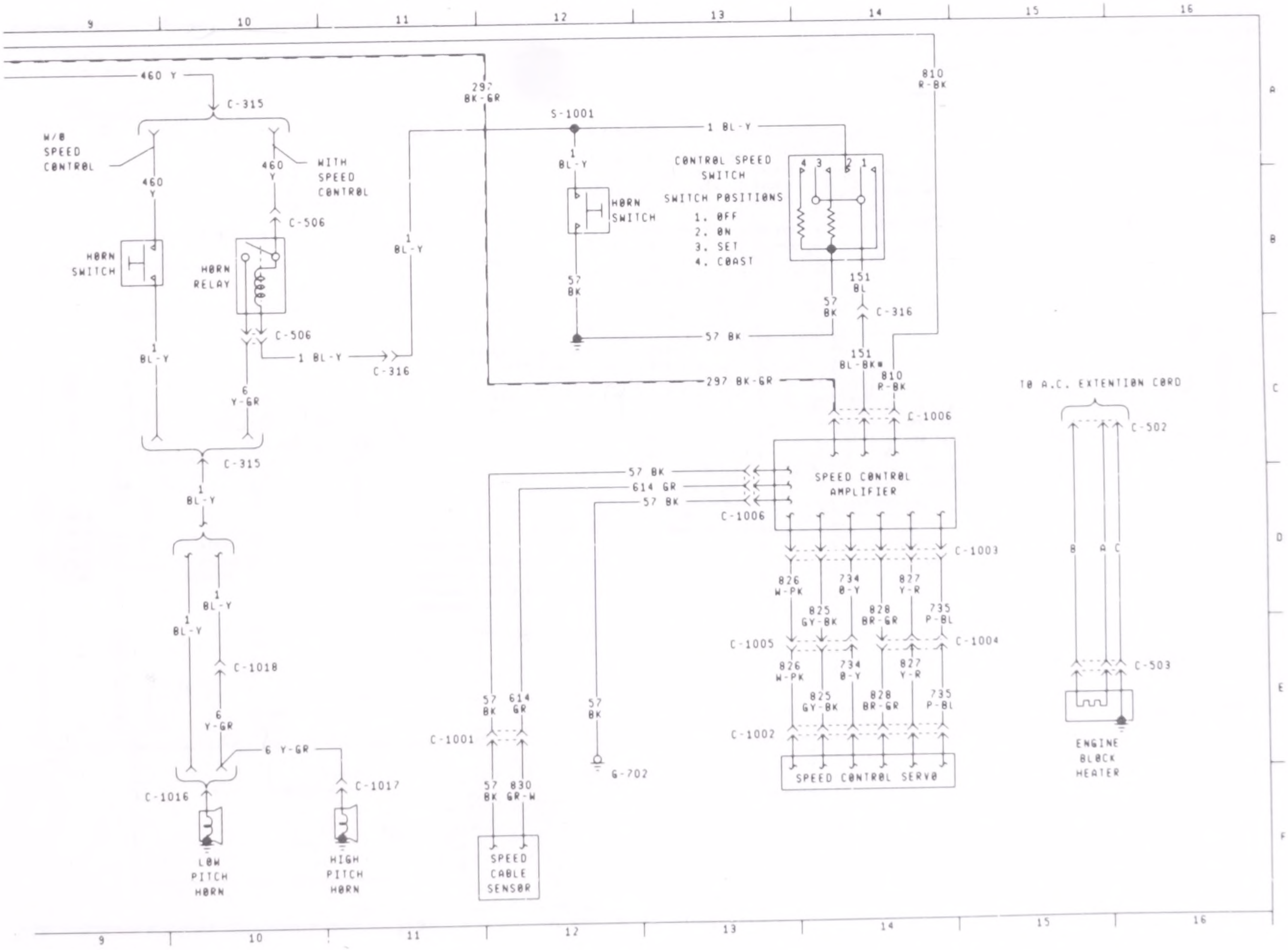
Wiring diagram — exterior lights (1978 and later — typical) 3 of 4


EXTERIOR LIGHTING, TURN/EMERG SIGNAL SW., C-316
810 R-BK
PWR. DST., FUSE PANEL, C-218
297 BK-GR
PWR. DST., HEADLAMP SW., C-411
460 Y
PWR. DST., STARTER MOTOR RELAY, S-1201
517 BK-W
FUSE LINK
S-1201
S-1202
C-1201
C-1204
122 PK-O
121 PK-GR
119 PK-Y
117 PK-BK
DOOR LOCK CONTROL RELAY (LOCK)
DOOR LOCK CONTROL RELAY (UNLOCK)
C-1202
C-1203
C-1209
C-1210
FRONT DOOR LOCK SWITCH (LEFT HAND)
FRONT DOOR LOCK SWITCH (RIGHT HAND)
S-1203
S-1204
C-1211
S-1205
S-1206
C-1206
C-1205
C-1212
C-1213
C-1218
C-1217
CONTACT TERMINAL
C-1214
C-1215
C-1220
C-1219
C-1207
C-1208
C-1216
C-1221
DOOR LOCK MOTOR (L.H. FRONT)
DOOR LOCK MOTOR (R.H. FRONT)
DOOR LOCK MOTOR (SIDE)
DOOR LOCK MOTOR (REAR)

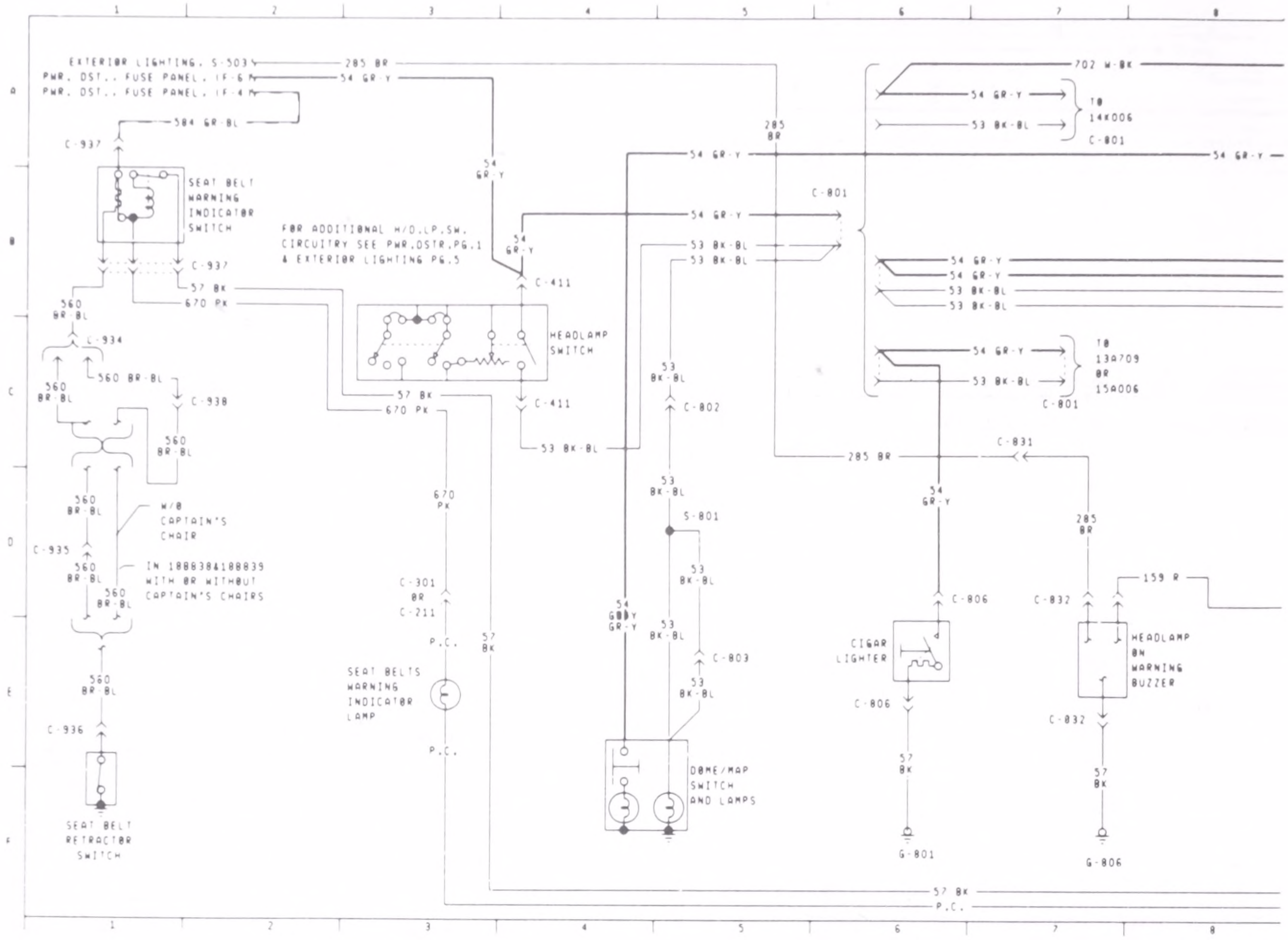
Wiring diagram — power door locks (1978 and later — typical)



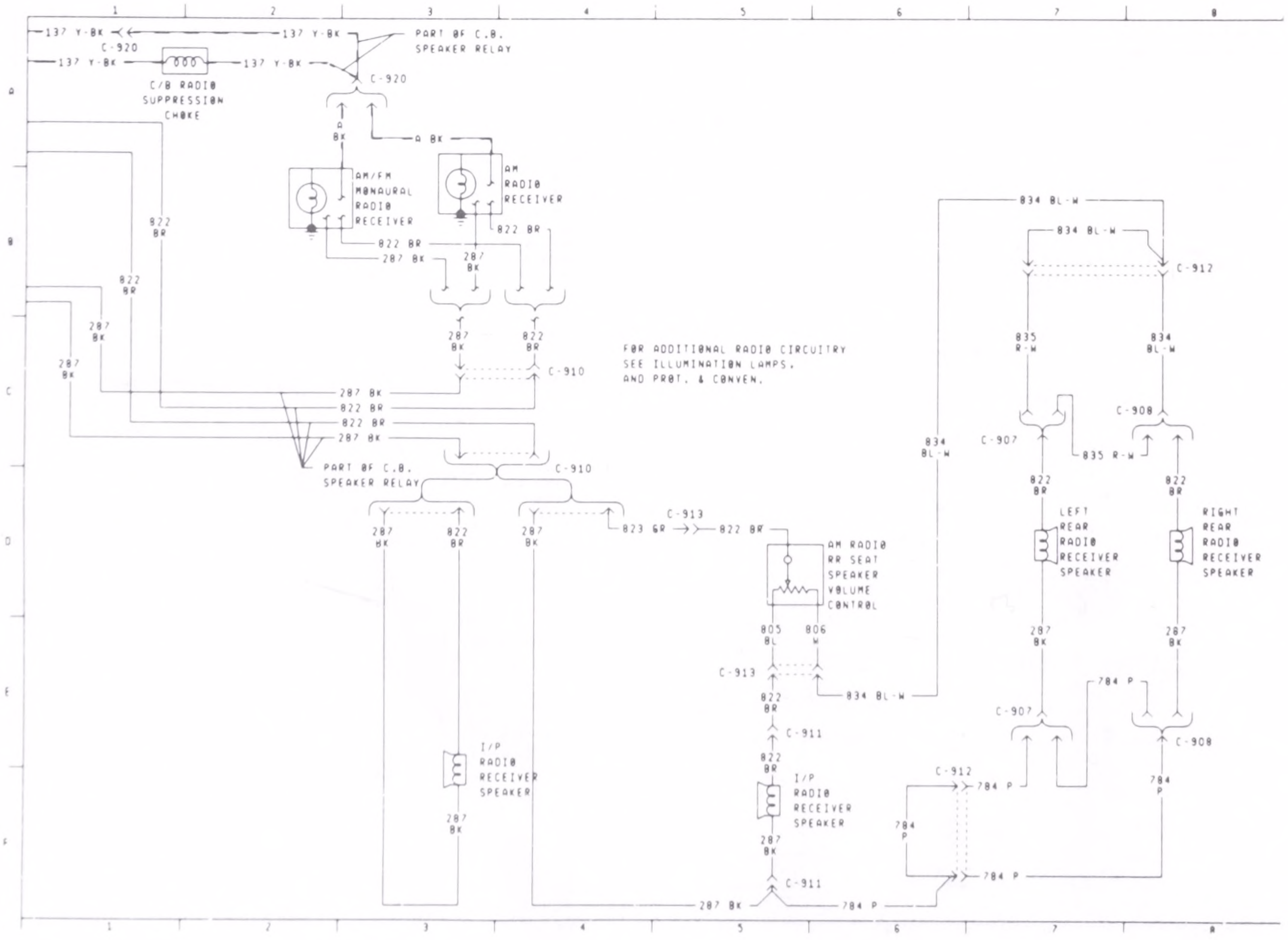
Wiring diagram — exterior lights (1978 and later — typical) 4 of 4



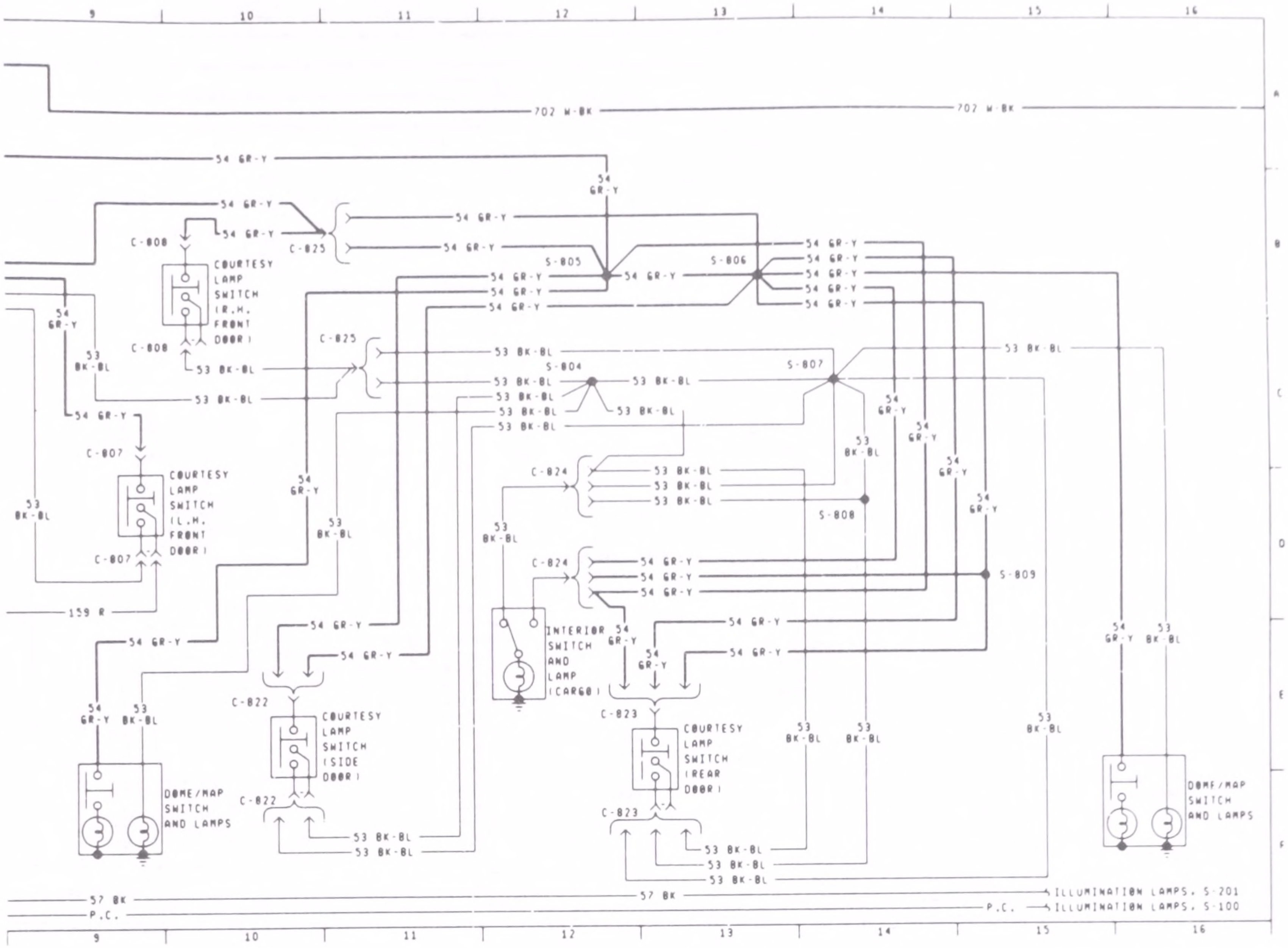
Wiring diagram — horn and speed control (1978 and later — typical)


EXTERIOR LIGHTING, S-503
PWR. DST., FUSE PANEL, IF-6
PWR. DST., FUSE PANEL, IF-4
285 BR
54 GR-Y
584 GR-BL
C-937
SEAT BELT WARNING INDICATOR SWITCH
FOR ADDITIONAL H/O.LP.SW. CIRCUITRY SEE PWR.DSTR.PG.1 & EXTERIOR LIGHTING PG.5
C-411
57 BK
670 PK
560 BR-BL
C-934
C-938
HEADLAMP SWITCH
53 BK-BL
W/O CAPTAIN'S CHAIR
C-935
IN 188838&188839 WITH OR WITHOUT CAPTAIN'S CHAIRS
C-301 OR C-211
P.C.
SEAT BELTS WARNING INDICATOR LAMP
C-936
SEAT BELT RETRACTOR SWITCH
C-801
702 W-BK
TO 14K006
TO 13A709 OR 15A006
C-802
S-801
C-803
DOME/MAP SWITCH AND LAMPS
C-831
C-806
CIGAR LIGHTER
G-801
C-832
159 R
HEADLAMP ON WARNING BUZZER
G-806

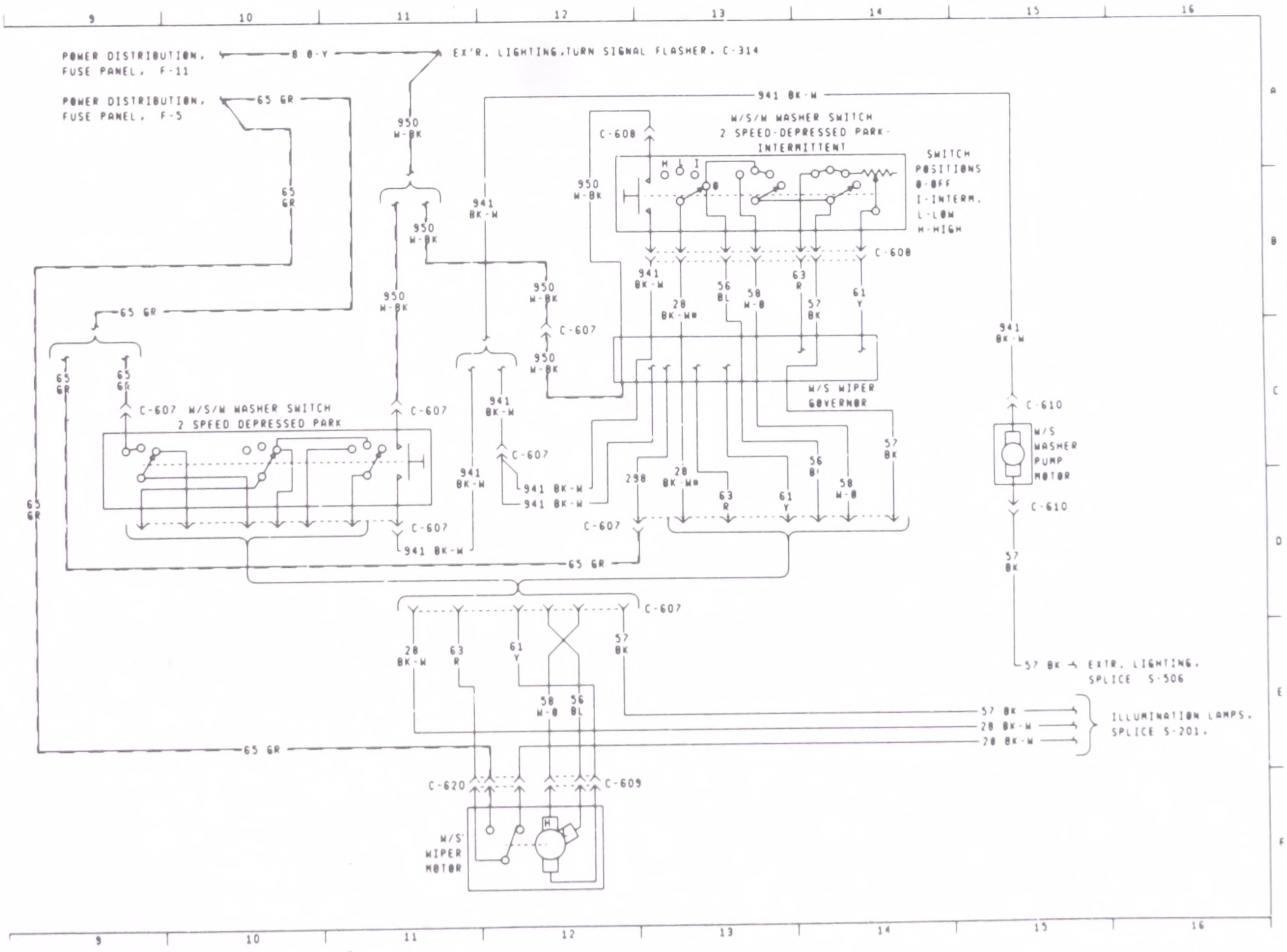
Wiring diagram — protection and convenience devices (1978 and later — typical) 1 of 2


137 Y-BK
C-920
C/B RADIO SUPPRESSION CHOKE
PART OF C.B. SPEAKER RELAY
A BK
AM/FM MONAURAL RADIO RECEIVER
AM RADIO RECEIVER
822 BR
287 BK
C-910
FOR ADDITIONAL RADIO CIRCUITRY SEE ILLUMINATION LAMPS, AND PROT. & CONVEN.
823 GR
C-913
AM RADIO RR SEAT SPEAKER VOLUME CONTROL
805 BL
806 W
834 BL-W
C-911
I/P RADIO RECEIVER SPEAKER
C-912
835 R-W
C-907
C-908
LEFT REAR RADIO RECEIVER SPEAKER
RIGHT REAR RADIO RECEIVER SPEAKER
784 P

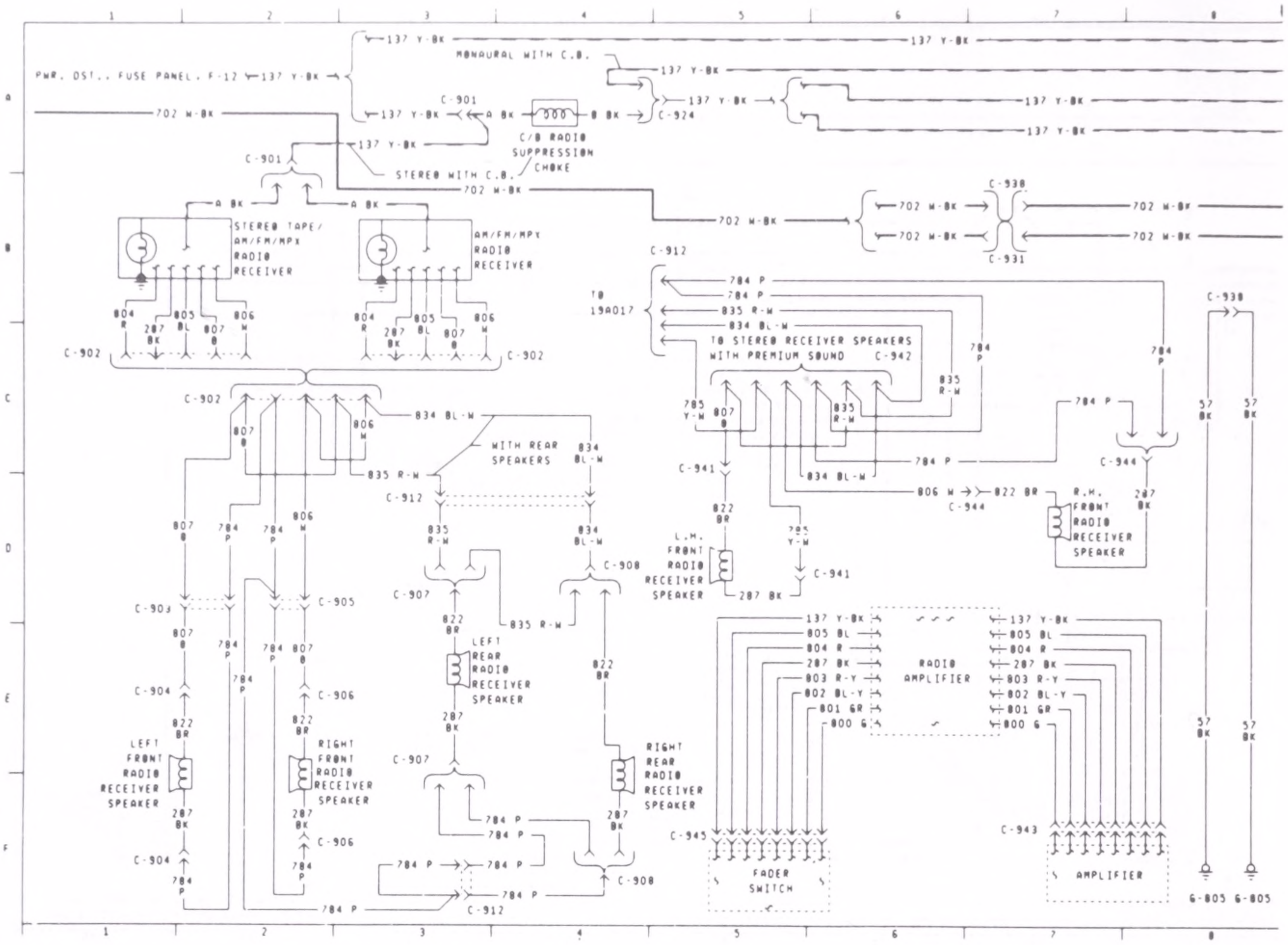
Wiring diagram — standard radio (1978 and later — typical)


702 W-BK
54 GR-Y
53 BK-BL
C-808
COURTESY LAMP SWITCH (R.H. FRONT DOOR)
C-825
S-805
S-806
S-804
S-807
C-807
COURTESY LAMP SWITCH (L.H. FRONT DOOR)
159 R
C-824
S-808
S-809
INTERIOR SWITCH AND LAMP (CARGO)
C-822
COURTESY LAMP SWITCH (SIDE DOOR)
C-823
COURTESY LAMP SWITCH (REAR DOOR)
DOME/MAP SWITCH AND LAMPS
57 BK
P.C.
ILLUMINATION LAMPS, S-201
ILLUMINATION LAMPS, S-100

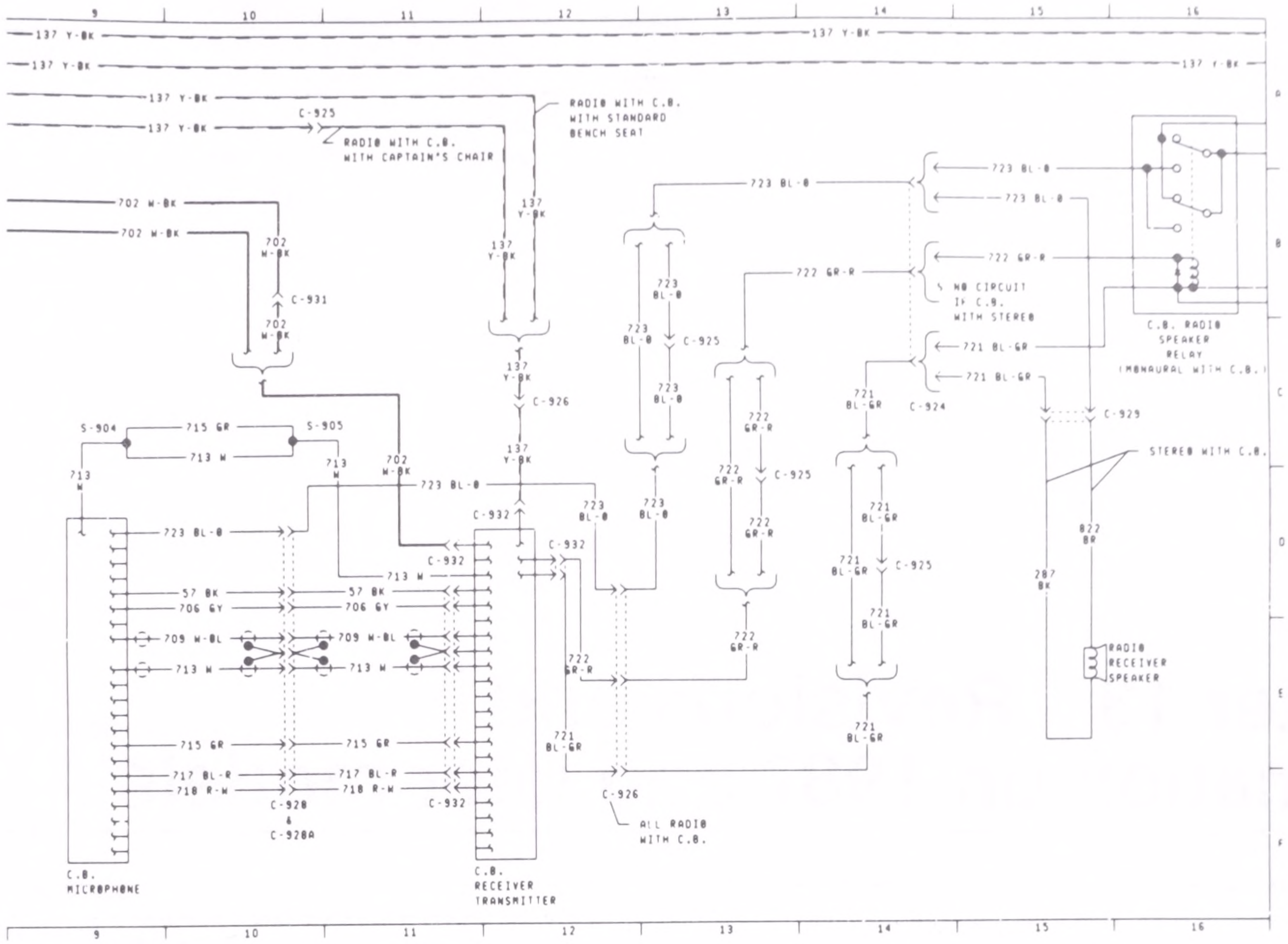
Wiring diagram — protection and convenience devices (1978 and later — typical) 2 of 2


POWER DISTRIBUTION, FUSE PANEL, F-11
8 O-Y
EXT'R. LIGHTING,TURN SIGNAL FLASHER, C-314
POWER DISTRIBUTION, FUSE PANEL, F-5
65 GR
941 BK-W
950 W-BK
C-608
W/S/W WASHER SWITCH 2 SPEED-DEPRESSED PARK-INTERMITTENT
SWITCH POSITIONS
O-OFF
I-INTERM.
L-LOW
H-HIGH
C-607
W/S/W WASHER SWITCH 2 SPEED DEPRESSED PARK
W/S WIPER GOVERNOR
28 BK-W
56 BL
58 W-O
63 R
61 Y
57 BK
C-610
W/S WASHER PUMP MOTOR
57 BK → EXTR. LIGHTING, SPLICE S-506
ILLUMINATION LAMPS, SPLICE S-201.
C-620
C-609
W/S WIPER MOTOR

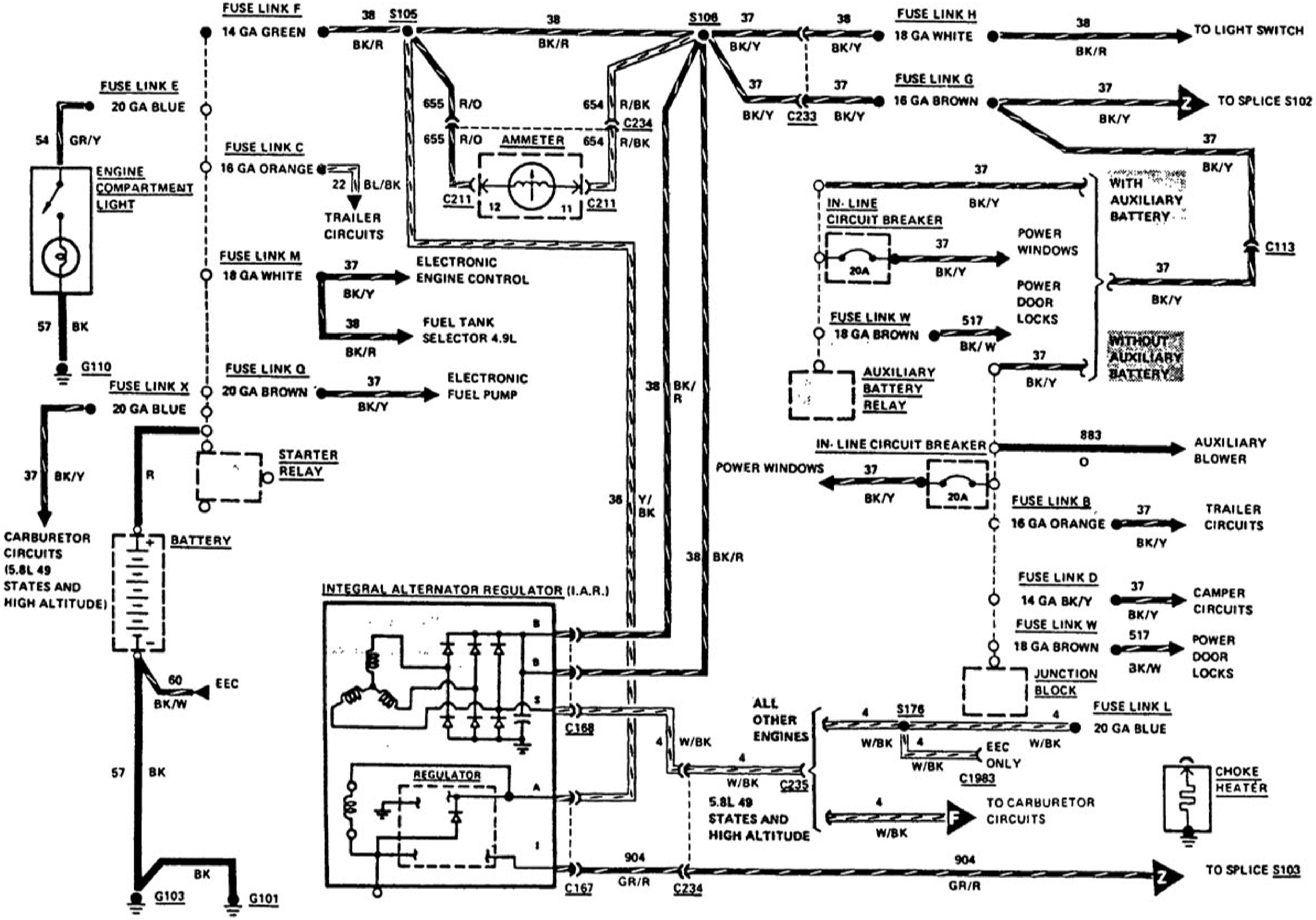
Wiring diagram — windshield wiper/washer systems (1978 and later — typical)

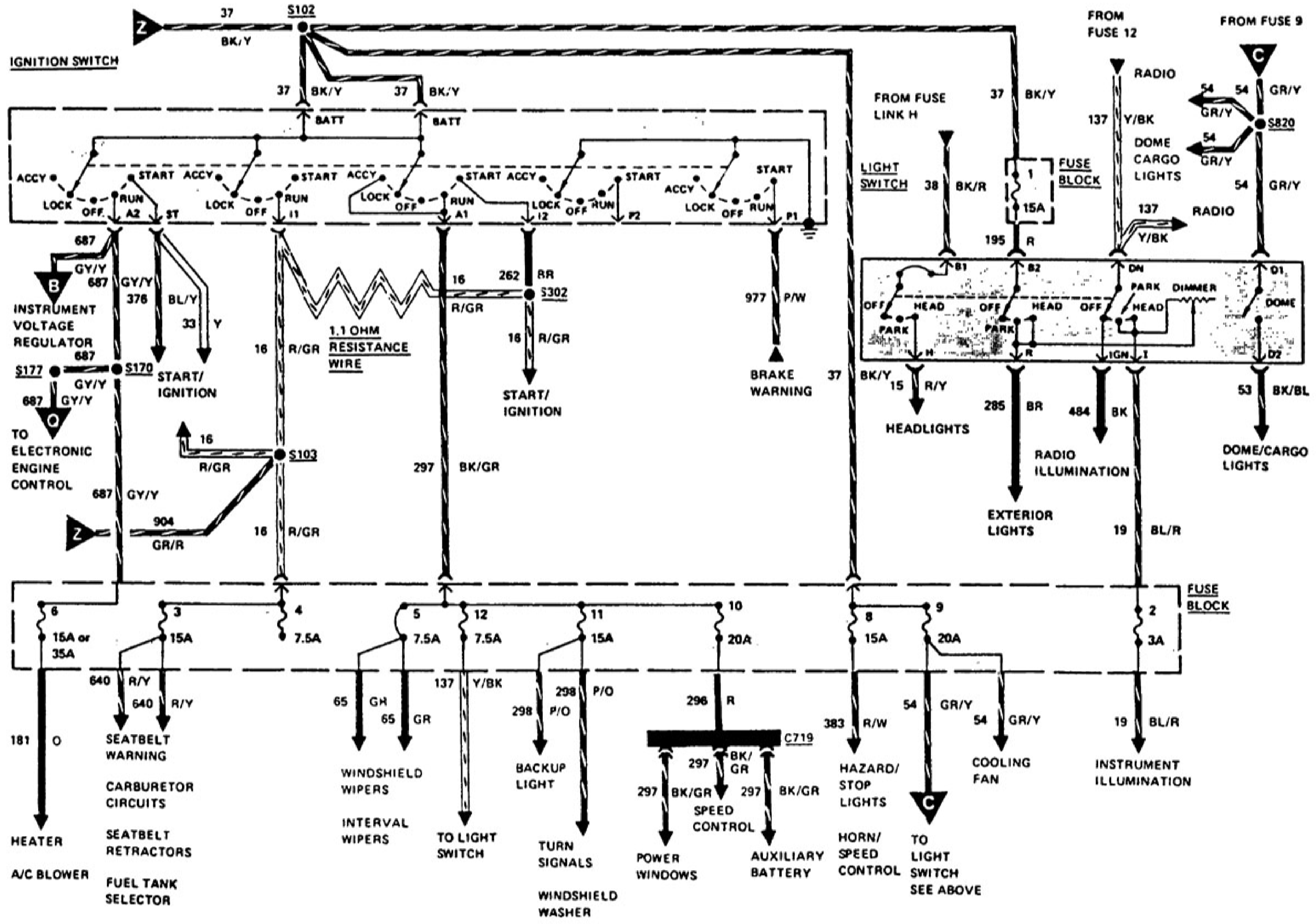


Wiring diagram — optional stereo system (1978 and later — typical) 1 of 2

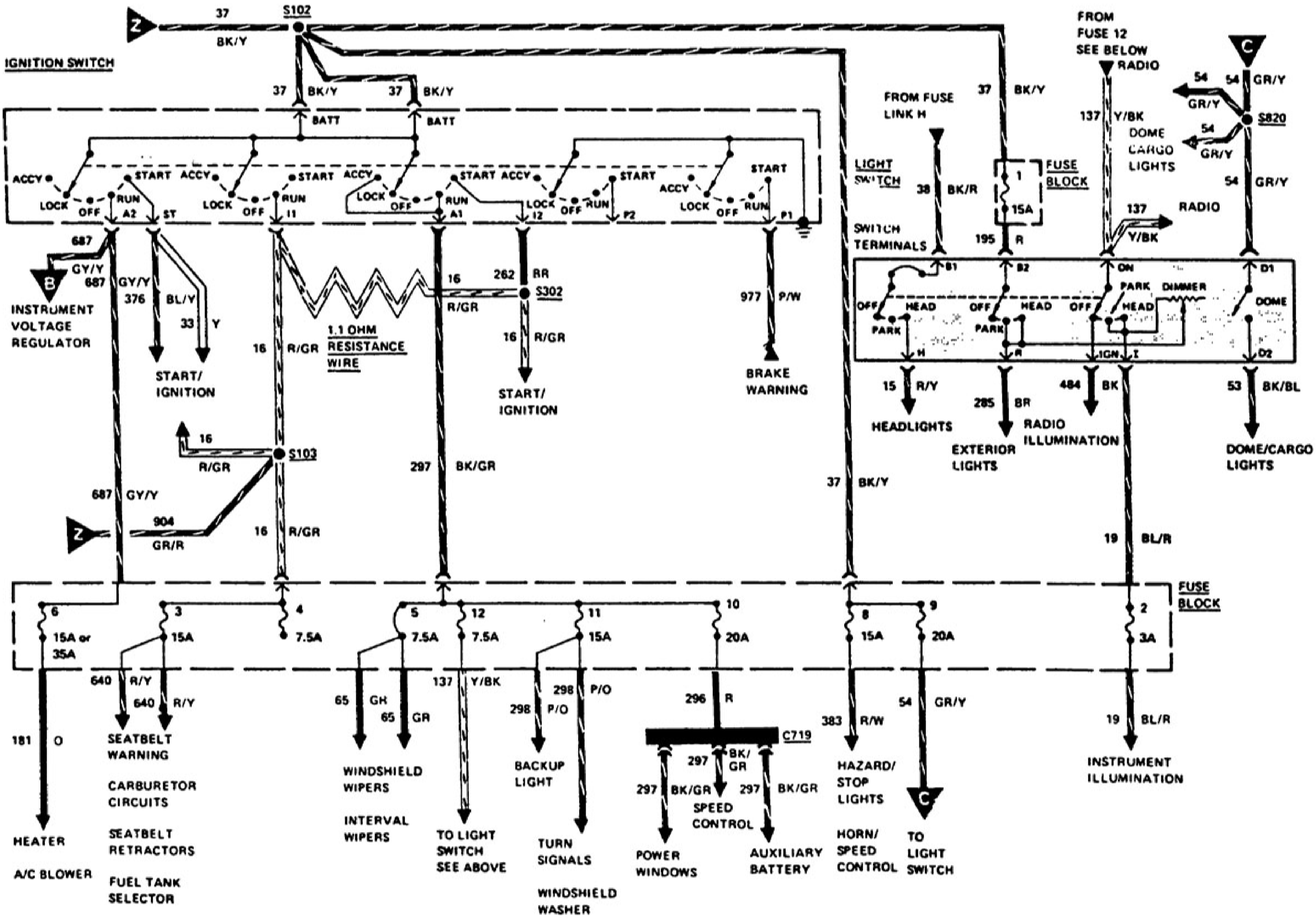


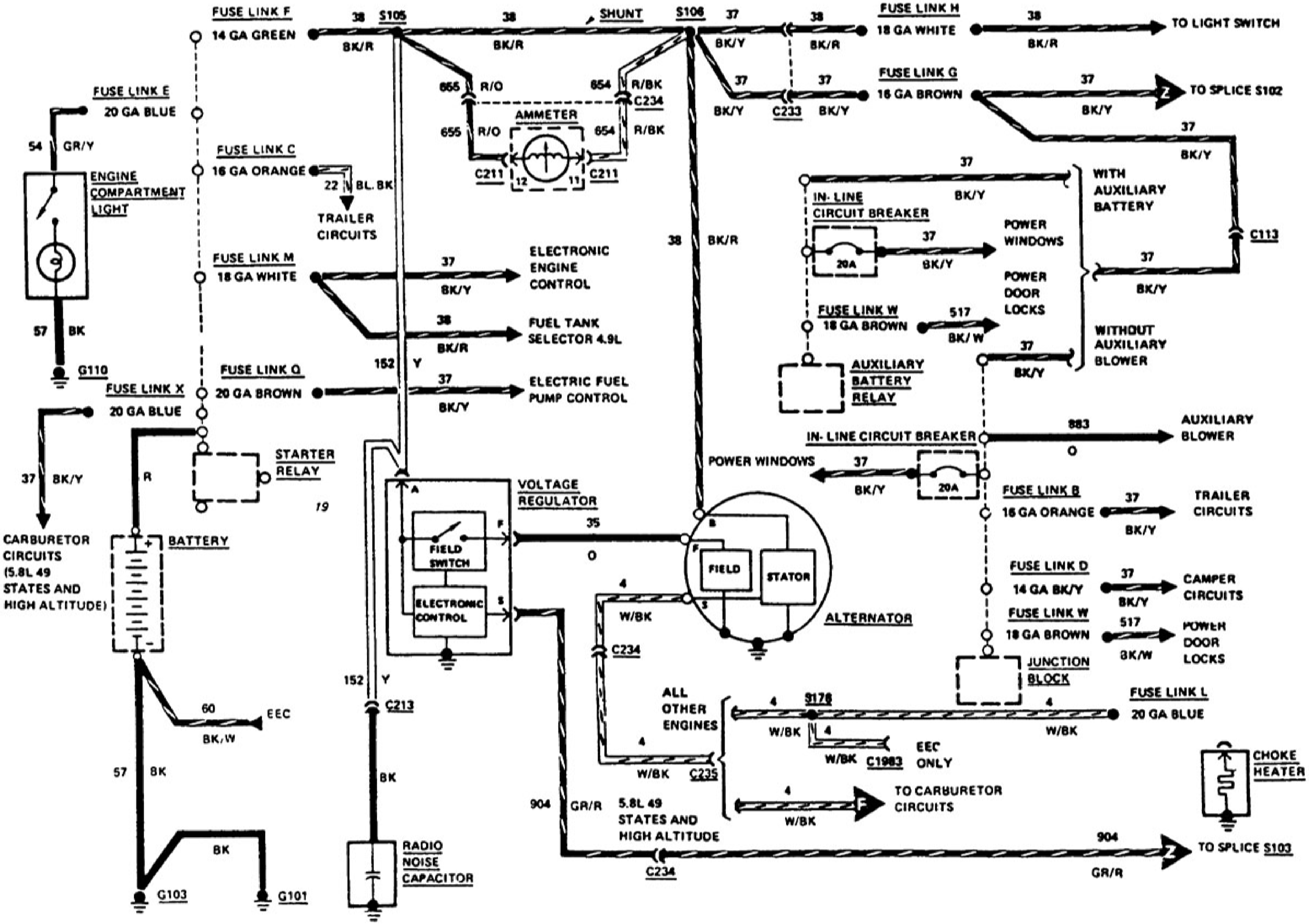
Wiring diagram — optional stereo system (1978 and later — typical) 2 of 2

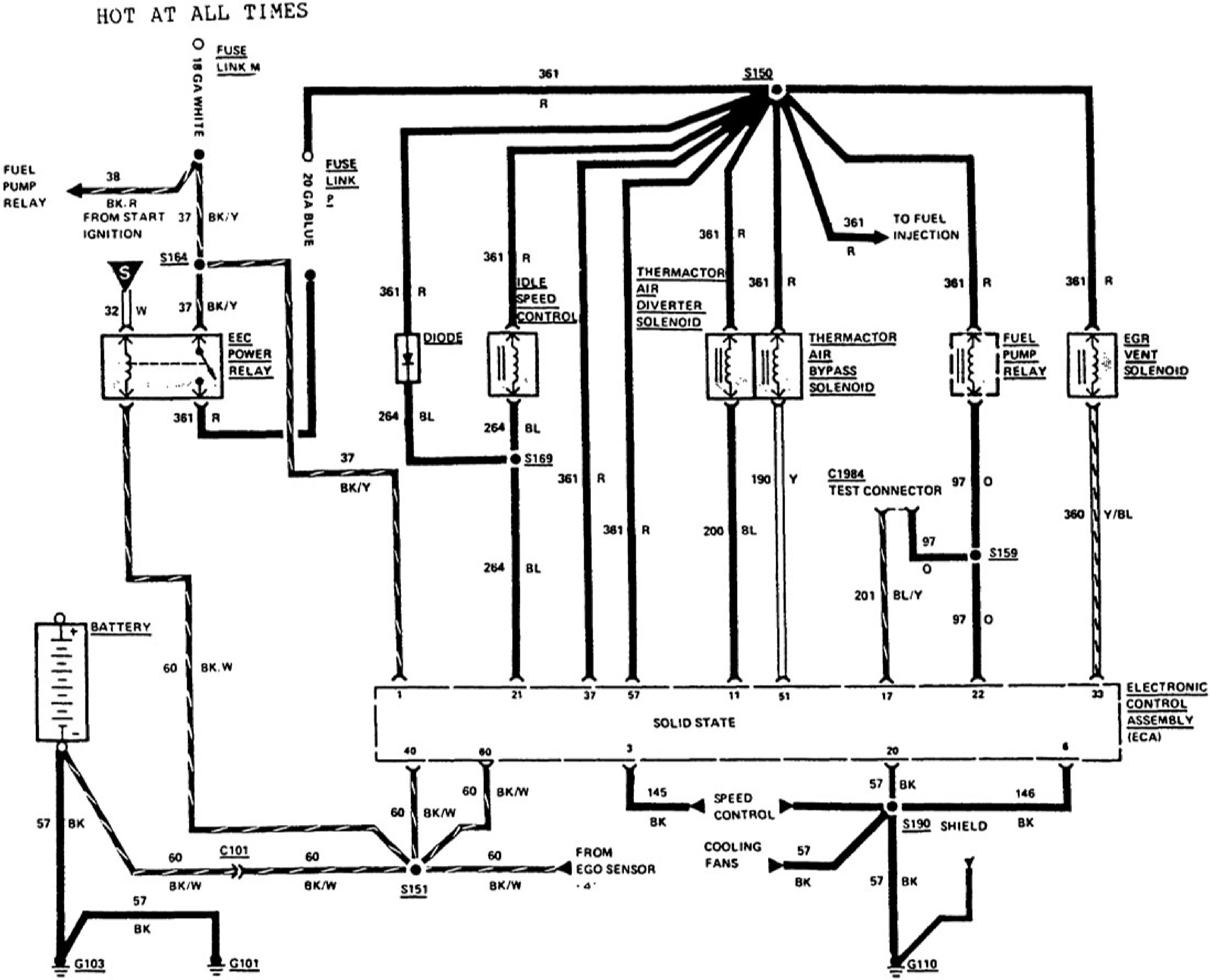

FUSE LINK F
14 GA GREEN
38
S105
BK/R
38
BK/R
S106
37
BK/Y
38
BK/Y
FUSE LINK H
18 GA WHITE
38
BK/R
TO LIGHT SWITCH
FUSE LINK E
20 GA BLUE
54
GR/Y
ENGINE COMPARTMENT LIGHT
57
BK
G110
655
R/O
655
R/O
654
R/BK
C234
654
R/BK
AMMETER
C211
12
11
C211
37
BK/Y
C233
37
BK/Y
FUSE LINK G
16 GA BROWN
37
BK/Y
TO SPLICE S102
37
BK/Y
C113
FUSE LINK C
16 GA ORANGE
22
BL/BK
TRAILER CIRCUITS
FUSE LINK M
18 GA WHITE
37
BK/Y
ELECTRONIC ENGINE CONTROL
38
BK/R
FUEL TANK SELECTOR 4.9L
FUSE LINK Q
20 GA BROWN
37
BK/Y
ELECTRONIC FUEL PUMP
FUSE LINK X
20 GA BLUE
37
BK/Y
CARBURETOR CIRCUITS (5.8L 49 STATES AND HIGH ALTITUDE)
R
STARTER RELAY
BATTERY
60
BK/W
EEC
57
BK
BK
G103
G101
37
BK/Y
IN-LINE CIRCUIT BREAKER
20A
37
BK/Y
POWER WINDOWS
POWER DOOR LOCKS
WITH AUXILIARY BATTERY
37
BK/Y
FUSE LINK W
18 GA BROWN
517
BK/W
WITHOUT AUXILIARY BATTERY
37
BK/Y
AUXILIARY BATTERY RELAY
38
BK/R
38
Y/BK
38
BK/R
IN-LINE CIRCUIT BREAKER
883
O
AUXILIARY BLOWER
POWER WINDOWS
37
BK/Y
20A
FUSE LINK B
16 GA ORANGE
37
BK/Y
TRAILER CIRCUITS
FUSE LINK D
14 GA BK/Y
37
BK/Y
CAMPER CIRCUITS
FUSE LINK W
18 GA BROWN
517
BK/W
POWER DOOR LOCKS
JUNCTION BLOCK
INTEGRAL ALTERNATOR REGULATOR (I.A.R.)
B
B
S
C168
REGULATOR
A
I
C167
904
GR/R
C234
904
GR/R
TO SPLICE S103
4
W/BK
4
W/BK
C235
ALL OTHER ENGINES
5.8L 49 STATES AND HIGH ALTITUDE
4
S176
4
W/BK
4
W/BK
EEC ONLY
W/BK
C1983
4
W/BK
FUSE LINK L
20 GA BLUE
4
W/BK
TO CARBURETOR CIRCUITS
CHOKE HEATER

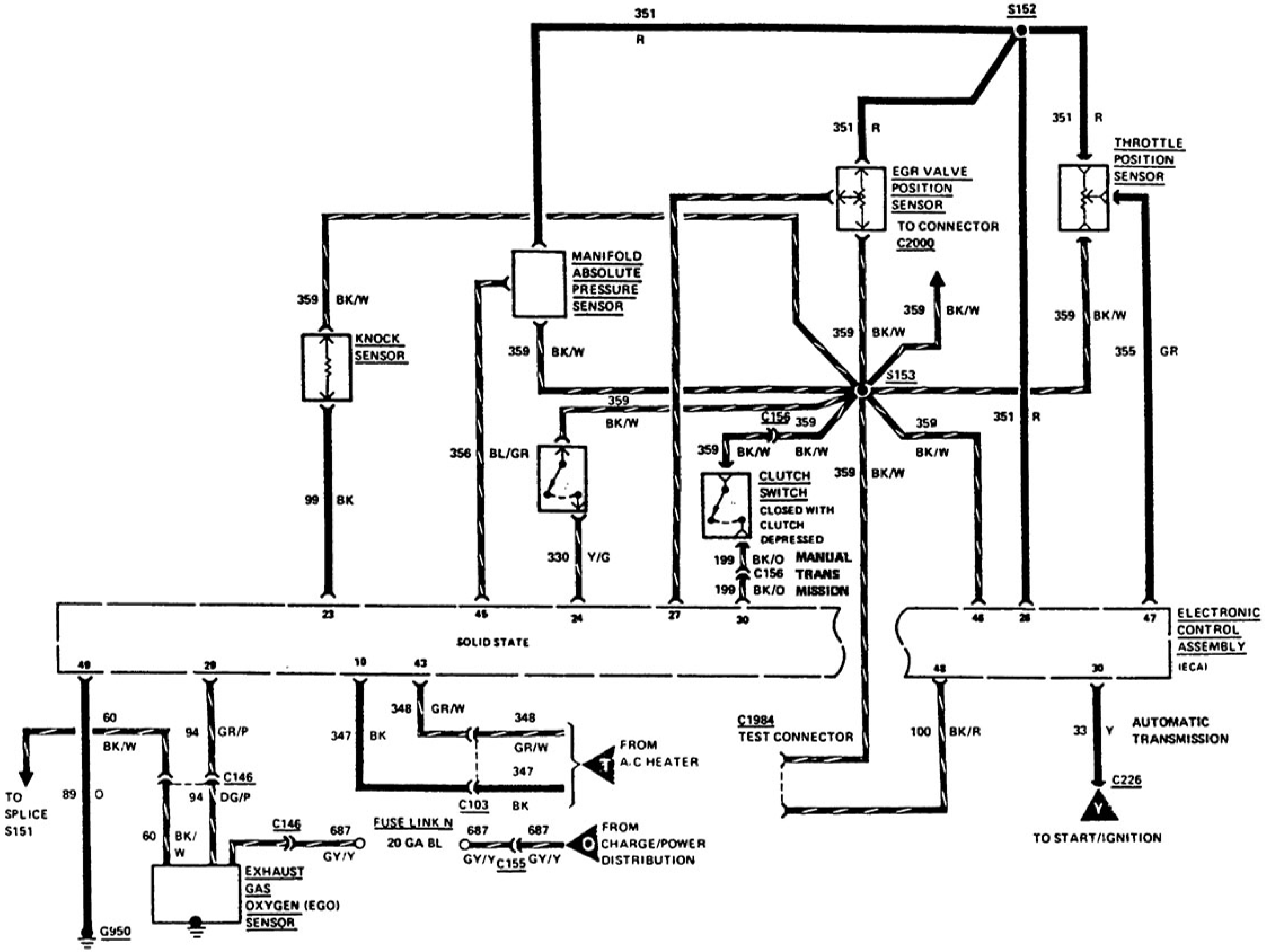


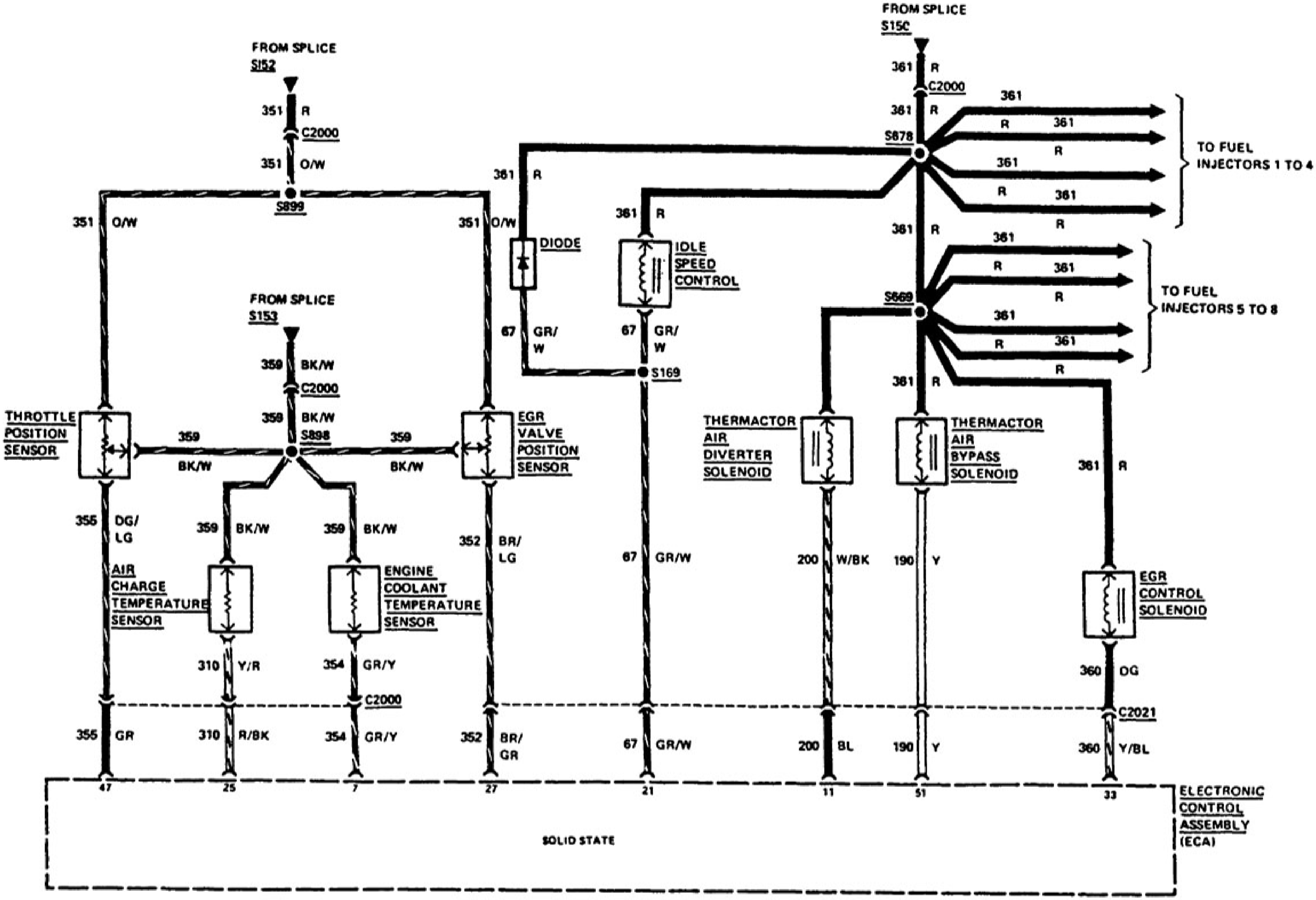
Z
37
BK/Y
S102
IGNITION SWITCH
37 BK/Y
37 BK/Y
BATT
BATT
ACCY
LOCK
OFF
RUN
START
A2
ST
I1
A1
I2
P2
P1
687
GY/Y
B
687 GY/Y
376 BL/Y
33 Y
INSTRUMENT VOLTAGE REGULATOR
S177
S170
687 GY/Y
O
TO ELECTRONIC ENGINE CONTROL
START/ IGNITION
16 R/GR
1.1 OHM RESISTANCE WIRE
16 R/GR
262 BR
S302
16 R/GR
START/ IGNITION
977 P/W
BRAKE WARNING
16 R/GR
S103
687 GY/Y
Z
904 GR/R
16 R/GR
297 BK/GR
37 BK/Y
FROM FUSE LINK H
LIGHT SWITCH
38 BK/R
37 BK/Y
FUSE BLOCK
1
15A
195 R
FROM FUSE 12
RADIO
137 Y/BK
DOME CARGO LIGHTS
137
RADIO
Y/BK
FROM FUSE 9
C
54 GR/Y
GR/Y
S820
GR/Y
54 GR/Y
B1
B2
DN
D1
OFF
HEAD
PARK
DIMMER
DOME
H
R
IGN
I
D2
15 R/Y
HEADLIGHTS
285 BR
EXTERIOR LIGHTS
484 BK
RADIO ILLUMINATION
19 BL/R
53 BK/BL
DOME/CARGO LIGHTS
FUSE BLOCK
6 15A or 35A
3 15A
4 7.5A
5 7.5A
12 7.5A
11 15A
10 20A
8 15A
9 20A
2 3A
181 O
HEATER
A/C BLOWER
640 R/Y
640 R/Y
SEATBELT WARNING
CARBURETOR CIRCUITS
SEATBELT RETRACTORS
FUEL TANK SELECTOR
65 GR
65 GR
WINDSHIELD WIPERS
INTERVAL WIPERS
137 Y/BK
TO LIGHT SWITCH
298 P/O
298 P/O
BACKUP LIGHT
TURN SIGNALS
WINDSHIELD WASHER
296 R
C719
297 BK/GR
297 BK/GR
297 BK/GR
POWER WINDOWS
SPEED CONTROL
AUXILIARY BATTERY
383 R/W
HAZARD/ STOP LIGHTS
HORN/ SPEED CONTROL
54 GR/Y
C
TO LIGHT SWITCH SEE ABOVE
54 GR/Y
COOLING FAN
19 BL/R
INSTRUMENT ILLUMINATION

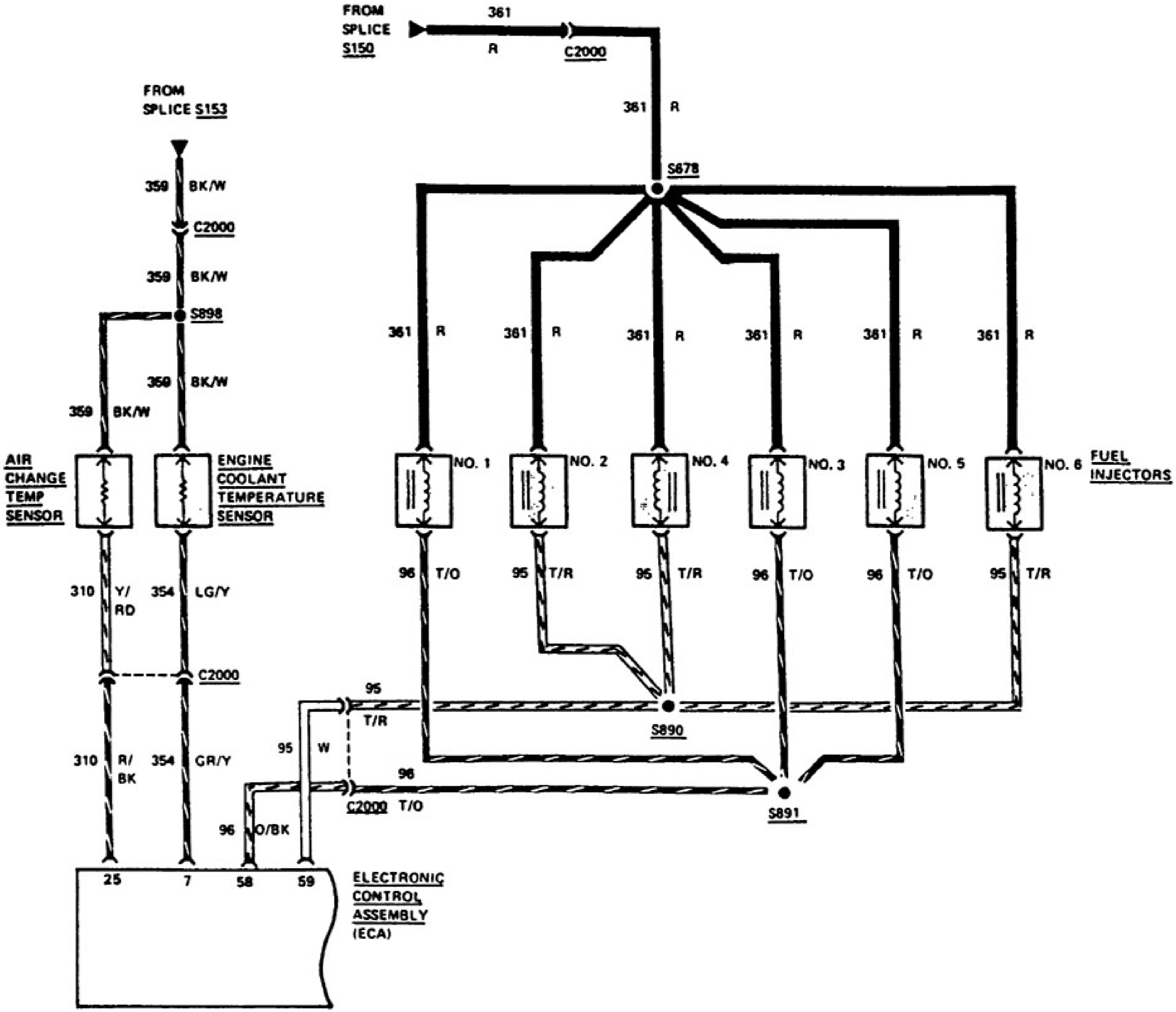

IGNITION SWITCH
Z
37
BK/Y
S102
BATT
ACCY
START
LOCK
OFF
RUN
A2
ST
I1
A1
I2
P2
P1
687
GY/Y
B
INSTRUMENT VOLTAGE REGULATOR
376
BL/Y
33
Y
START/ IGNITION
16
R/GR
1.1 OHM RESISTANCE WIRE
262
RR
S302
S103
904
GR/R
297
BK/GR
977
P/W
BRAKE WARNING
FROM FUSE LINK H
38
BK/R
LIGHT SWITCH
SWITCH TERMINALS
FUSE BLOCK
1
15A
195
R
FROM FUSE 12 SEE BELOW
RADIO
137
Y/BK
C
54
GR/Y
S820
DOME CARGO LIGHTS
B1
B2
ON
D1
OFF
HEAD
PARK
DIMMER
DOME
H
R
IGN
I
D2
15
R/Y
HEADLIGHTS
285
BR
EXTERIOR LIGHTS
484
BK
RADIO ILLUMINATION
53
BK/BL
DOME/CARGO LIGHTS
19
BL/R
6
15A or 35A
3
15A
4
7.5A
5
7.5A
12
7.5A
11
15A
10
20A
8
15A
9
20A
2
3A
181
O
HEATER
A/C BLOWER
640
R/Y
SEATBELT WARNING
CARBURETOR CIRCUITS
SEATBELT RETRACTORS
FUEL TANK SELECTOR
65
GH
GR
WINDSHIELD WIPERS
INTERVAL WIPERS
TO LIGHT SWITCH SEE ABOVE
298
P/O
BACKUP LIGHT
TURN SIGNALS
WINDSHIELD WASHER
296
C719
POWER WINDOWS
SPEED CONTROL
AUXILIARY BATTERY
383
R/W
HAZARD/ STOP LIGHTS
HORN/ SPEED CONTROL
TO LIGHT SWITCH
INSTRUMENT ILLUMINATION


FUSE LINK F
14 GA GREEN
38
S105
BK/R
38
BK/R
SHUNT
S106
37
BK/Y
38
BK/R
FUSE LINK H
18 GA WHITE
38
BK/R
TO LIGHT SWITCH
655
R/O
654
R/BK
C234
37
BK/Y
C233
37
BK/Y
FUSE LINK G
16 GA BROWN
37
BK/Y
TO SPLICE S102
AMMETER
655
R/O
654
R/BK
C211
12
11
C211
37
BK/Y
FUSE LINK E
20 GA BLUE
54
GR/Y
ENGINE COMPARTMENT LIGHT
57
BK
G110
FUSE LINK C
16 GA ORANGE
22
BL. BK
TRAILER CIRCUITS
FUSE LINK M
18 GA WHITE
37
BK/Y
ELECTRONIC ENGINE CONTROL
38
BK/R
FUEL TANK SELECTOR 4.9L
152
Y
FUSE LINK Q
20 GA BROWN
37
BK/Y
ELECTRIC FUEL PUMP CONTROL
FUSE LINK X
20 GA BLUE
37
BK/Y
CARBURETOR CIRCUITS (5.8L 49 STATES AND HIGH ALTITUDE)
R
STARTER RELAY
19
BATTERY
60
BK/W
EEC
57
BK
BK
G103
G101
38
BK/R
37
WITH AUXILIARY BATTERY
BK/Y
IN- LINE CIRCUIT BREAKER
20A
37
BK/Y
POWER WINDOWS
POWER DOOR LOCKS
C113
37
BK/Y
FUSE LINK W
18 GA BROWN
517
BK/W
WITHOUT AUXILIARY BLOWER
37
BK/Y
AUXILIARY BATTERY RELAY
IN- LINE CIRCUIT BREAKER
883
O
AUXILIARY BLOWER
POWER WINDOWS
37
BK/Y
20A
FUSE LINK B
16 GA ORANGE
37
BK/Y
TRAILER CIRCUITS
A
FIELD SWITCH
F
ELECTRONIC CONTROL
S
VOLTAGE REGULATOR
35
O
B
F
FIELD
STATOR
S
ALTERNATOR
4
W/BK
C234
FUSE LINK D
14 GA BK/Y
37
BK/Y
CAMPER CIRCUITS
FUSE LINK W
18 GA BROWN
517
BK/W
POWER DOOR LOCKS
JUNCTION BLOCK
152
Y
C213
BK
RADIO NOISE CAPACITOR
ALL OTHER ENGINES
4
S178
W/BK
4
W/BK
FUSE LINK L
20 GA BLUE
4
W/BK
C1983
EEC ONLY
4
W/BK
C235
4
W/BK
TO CARBURETOR CIRCUITS
CHOKE HEATER
904
GR/R
5.8L 49 STATES AND HIGH ALTITUDE
C234
904
GR/R
TO SPLICE S103

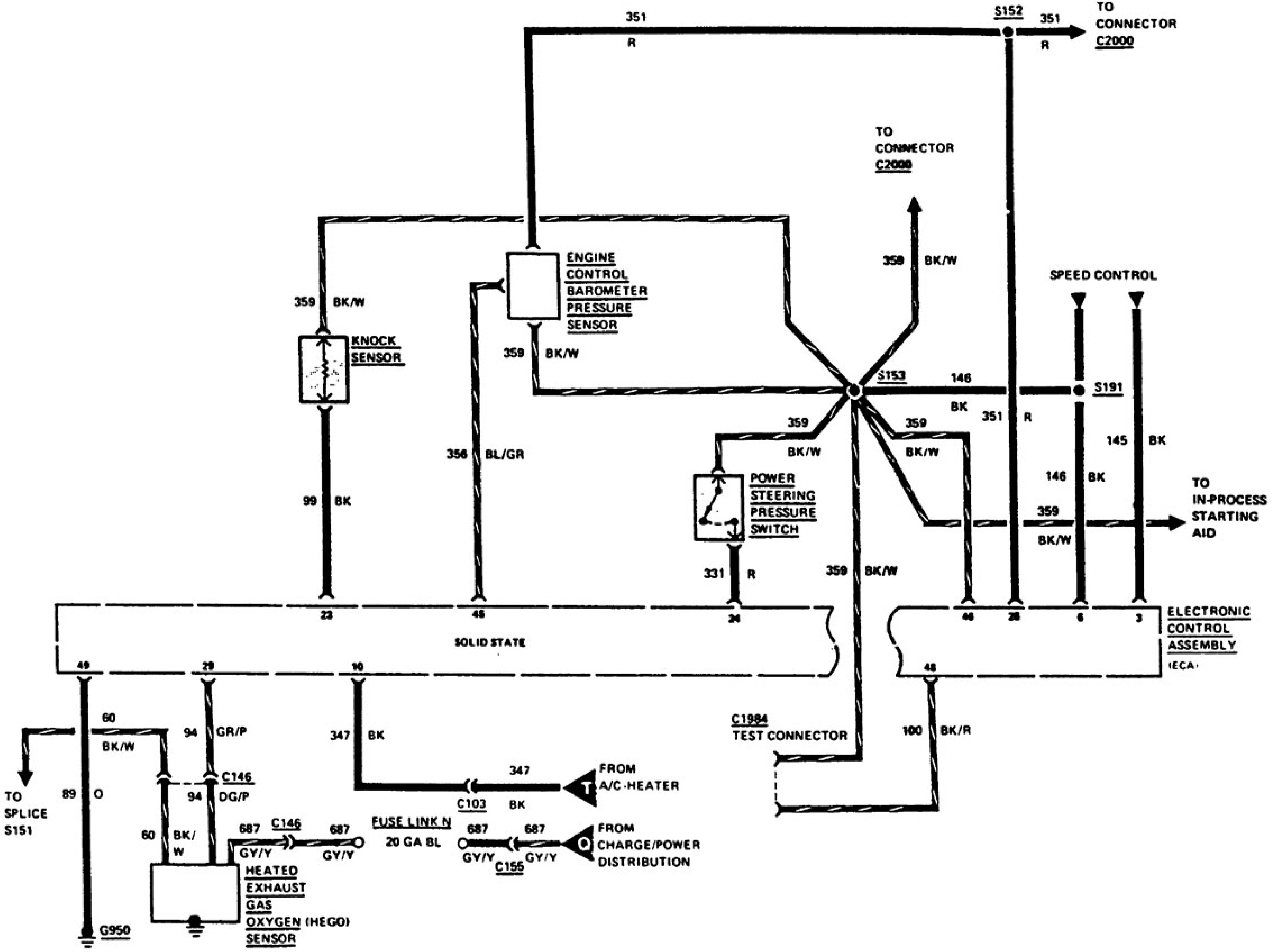

HOT AT ALL TIMES
FUSE LINK M
18 GA WHITE
FUEL PUMP RELAY
38
BK.R
FROM START IGNITION
37 BK/Y
S164
37 BK/Y
S
32 W
EEC POWER RELAY
361 R
FUSE LINK P.I
20 GA BLUE
361 R
S150
361 R
DIODE
264 BL
IDLE SPEED CONTROL
264 BL
S169
264 BL
37 BK/Y
361 R
361 R
THERMACTOR AIR DIVERTER SOLENOID
361 R
361 R
THERMACTOR AIR BYPASS SOLENOID
200 BL
190 Y
361 R
TO FUEL INJECTION
361 R
FUEL PUMP RELAY
97 O
C1984 TEST CONNECTOR
97 O
S159
201 BL/Y
97 O
361 R
EGR VENT SOLENOID
360 Y/BL
1
21
37
57
11
51
17
22
33
SOLID STATE
ELECTRONIC CONTROL ASSEMBLY (ECA)
40
60
3
20
6
BATTERY
60 BK.W
57 BK
60 BK/W
C101
60 BK/W
S151
60 BK/W
60 BK/W
60 BK/W
FROM EGO SENSOR
57 BK
G103
G101
145 BK
SPEED CONTROL
57 BK
S190
SHIELD
146 BK
COOLING FANS
57 BK
57 BK
G110

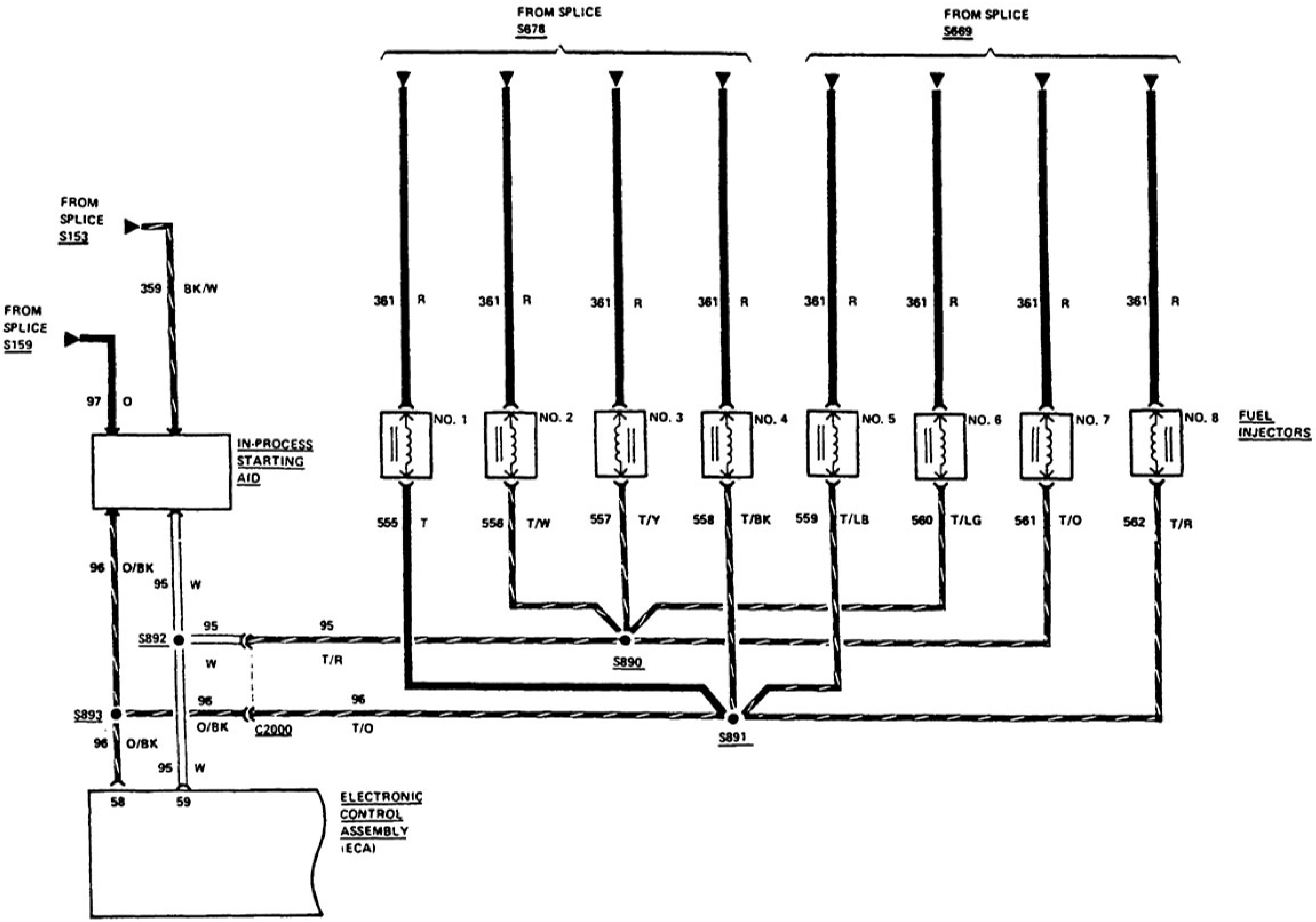

351
R
S152
351 R
351 R
THROTTLE POSITION SENSOR
EGR VALVE POSITION SENSOR
TO CONNECTOR C2000
MANIFOLD ABSOLUTE PRESSURE SENSOR
KNOCK SENSOR
359 BK/W
359 BK/W
359 BK/W
359 BK/W
359 BK/W
355 GR
S153
359
BK/W
C156
359
359 BK/W
BK/W
359
BK/W
351 R
356 BL/GR
99 BK
CLUTCH SWITCH
CLOSED WITH CLUTCH DEPRESSED
359 BK/W
330 Y/G
199 BK/O
C156
199 BK/O
MANUAL TRANS MISSION
23
46
24
27
30
46
26
47
SOLID STATE
ELECTRONIC CONTROL ASSEMBLY (ECA)
49
29
10
43
48
30
60
BK/W
TO SPLICE S151
89 O
94 GR/P
C146
94 DG/P
60 BK/W
347 BK
348 GR/W
348
GR/W
347
C103
BK
FROM A.C HEATER
T
C1984
TEST CONNECTOR
100 BK/R
33 Y
AUTOMATIC TRANSMISSION
C226
Y
TO START/IGNITION
C146
687
GY/Y
FUSE LINK N
20 GA BL
687
GY/Y
C155
687
GY/Y
O
FROM CHARGE/POWER DISTRIBUTION
EXHAUST GAS OXYGEN (EGO) SENSOR
G950


FROM SPLICE S152
351 R
C2000
351 O/W
S899
351 O/W
351 O/W
FROM SPLICE S153
359 BK/W
C2000
359 BK/W
S898
359 BK/W
359 BK/W
THROTTLE POSITION SENSOR
EGR VALVE POSITION SENSOR
359 BK/W
359 BK/W
355 DG/LG
AIR CHARGE TEMPERATURE SENSOR
ENGINE COOLANT TEMPERATURE SENSOR
310 Y/R
354 GR/Y
C2000
352 BR/LG
355 GR
310 R/BK
354 GR/Y
352 BR/GR
361 R
DIODE
67 GR/W
361 R
IDLE SPEED CONTROL
67 GR/W
S169
67 GR/W
67 GR/W
FROM SPLICE S150
361 R
C2000
361 R
S878
361 R
TO FUEL INJECTORS 1 TO 4
361 R
S669
361 R
TO FUEL INJECTORS 5 TO 8
THERMACTOR AIR DIVERTER SOLENOID
THERMACTOR AIR BYPASS SOLENOID
200 W/BK
190 Y
200 BL
190 Y
361 R
EGR CONTROL SOLENOID
360 OG
C2021
360 Y/BL
47
25
7
27
21
11
51
33
SOLID STATE
ELECTRONIC CONTROL ASSEMBLY (ECA)

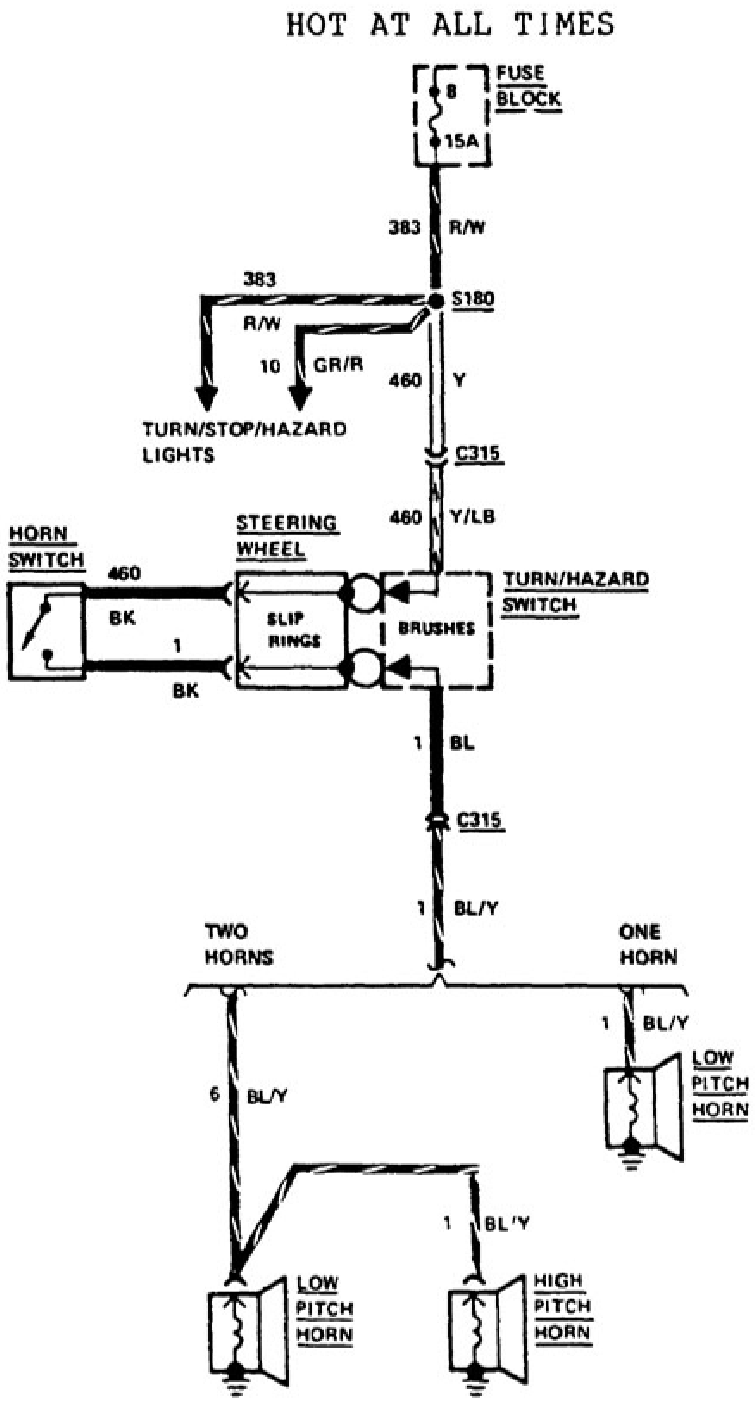


FROM SPLICE S150
361
R
C2000
361 R
S678
FROM SPLICE S153
359 BK/W
C2000
359 BK/W
S898
359 BK/W
359 BK/W
AIR CHANGE TEMP SENSOR
ENGINE COOLANT TEMPERATURE SENSOR
361 R
361 R
361 R
361 R
361 R
361 R
NO. 1
NO. 2
NO. 4
NO. 3
NO. 5
NO. 6
FUEL INJECTORS
96 T/O
95 T/R
95 T/R
96 T/O
96 T/O
95 T/R
310 Y/RD
354 LG/Y
C2000
95
T/R
S890
95 W
96
C2000 T/O
S891
310 R/BK
354 GR/Y
96 O/BK
25
7
58
59
ELECTRONIC CONTROL ASSEMBLY (ECA)

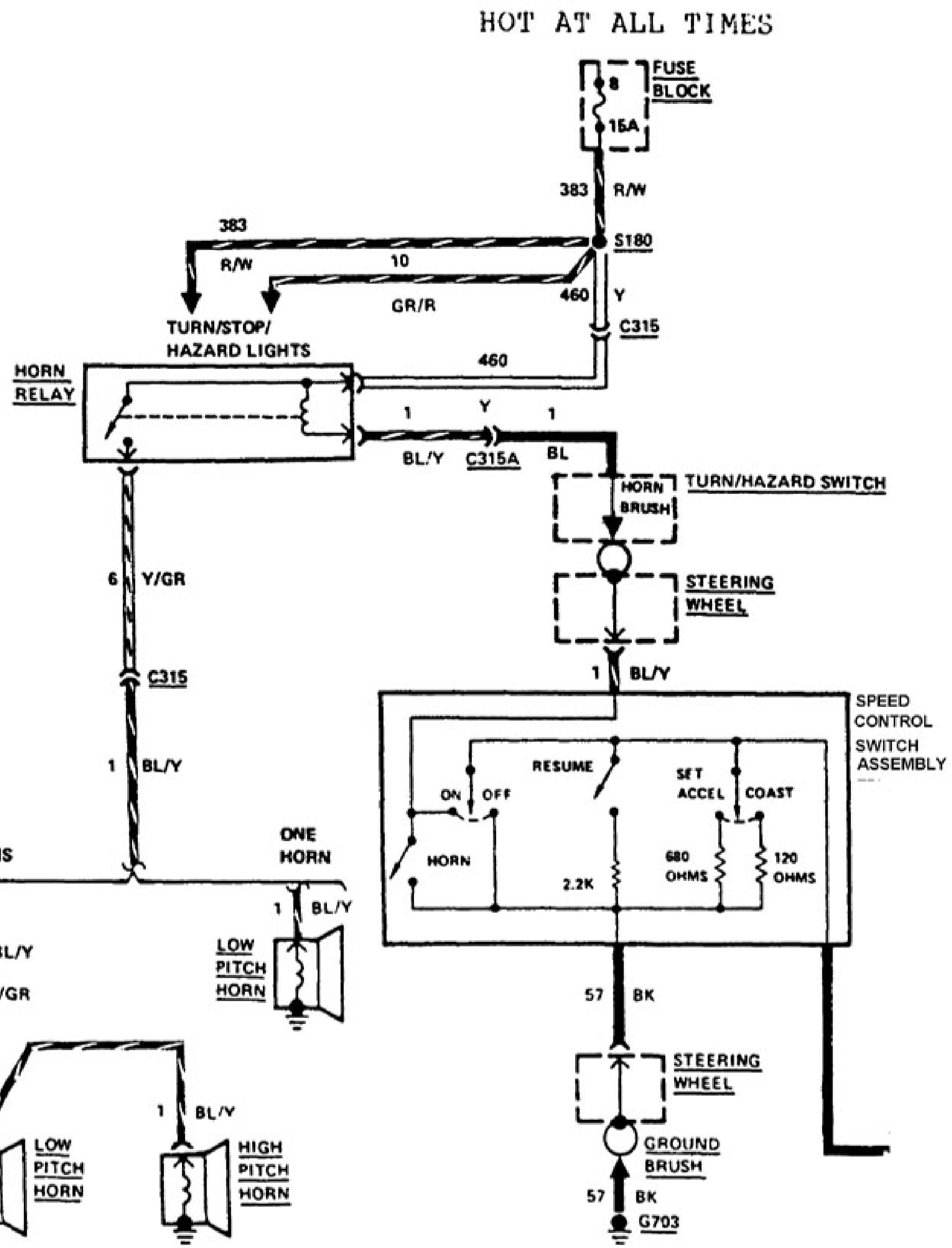

351
R
S152
351
R
TO
CONNECTOR
C2000
TO
CONNECTOR
C2000
359
BK/W
SPEED CONTROL
359
BK/W
KNOCK
SENSOR
ENGINE
CONTROL
BAROMETER
PRESSURE
SENSOR
359
BK/W
S153
146
BK
S191
351
R
359
BK/W
359
BK/W
145
BK
99
BK
356
BL/GR
POWER
STEERING
PRESSURE
SWITCH
146
BK
TO
IN-PROCESS
STARTING
AID
359
BK/W
331
R
359
BK/W
23
45
24
46
26
6
3
ELECTRONIC
CONTROL
ASSEMBLY
(ECA)
SOLID STATE
49
29
10
48
60
BK/W
94
GR/P
347
BK
C1984
TEST CONNECTOR
100
BK/R
TO
SPLICE
S151
89
O
C146
94
DG/P
347
C103
BK
FROM
A/C-HEATER
60
BK/
W
687
C146
687
GY/Y
GY/Y
FUSE LINK N
20 GA BL
687
687
GY/Y
C156
GY/Y
FROM
CHARGE/POWER
DISTRIBUTION
HEATED
EXHAUST
GAS
OXYGEN (HEGO)
SENSOR
G950

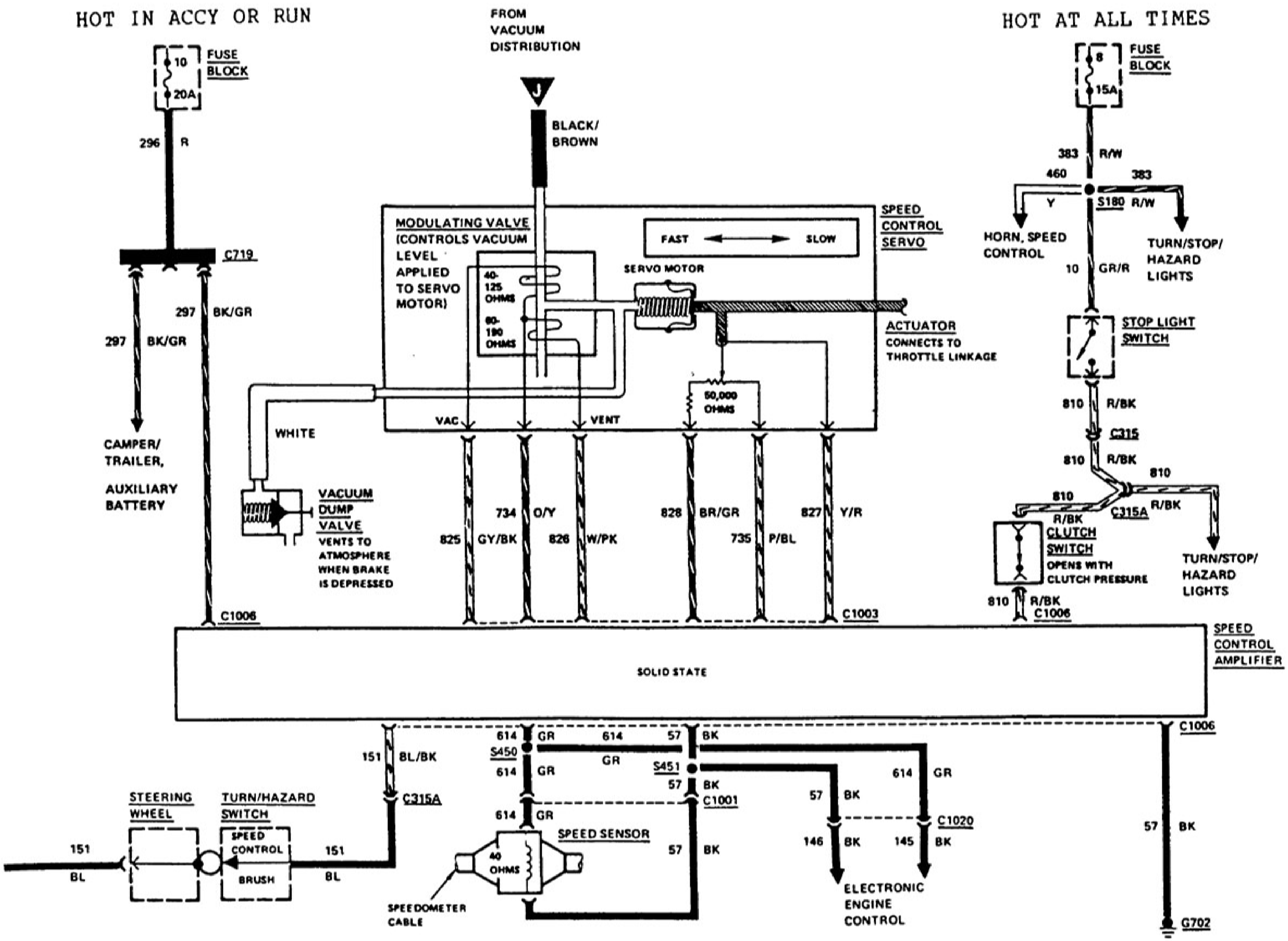

FROM SPLICE S878
FROM SPLICE S669
FROM SPLICE S153
359 BK/W
FROM SPLICE S159
97 O
IN-PROCESS STARTING AID
361 R
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
NO. 7
NO. 8
FUEL INJECTORS
555 T
556 T/W
557 T/Y
558 T/BK
559 T/LB
560 T/LG
561 T/O
562 T/R
96 O/BK
95 W
S892
95
95
W
T/R
S890
S893
96
96
O/BK
C2000
T/O
S891
96 O/BK
95 W
58
59
ELECTRONIC CONTROL ASSEMBLY (ECA)

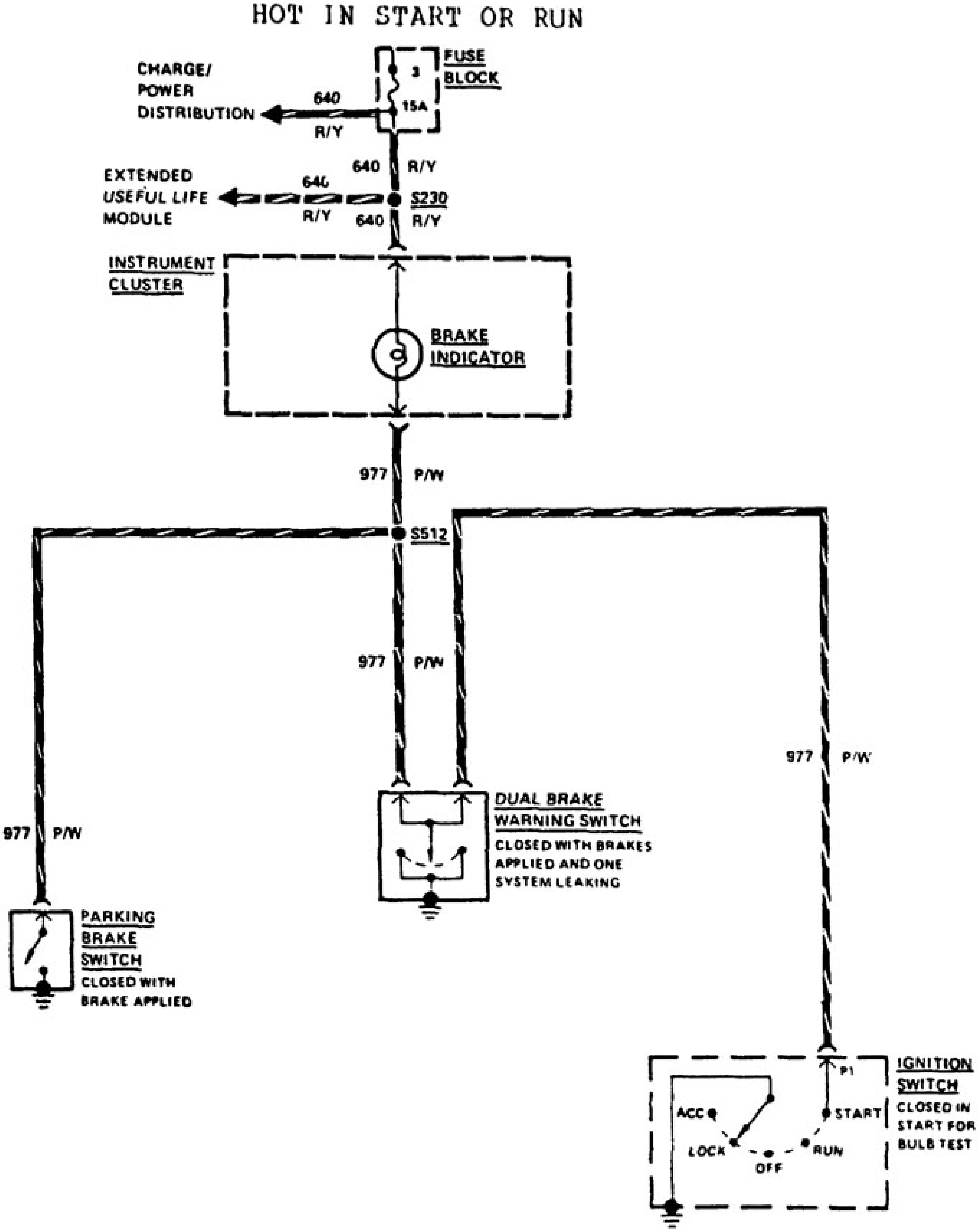
WITHOUT SPEED CONTROL

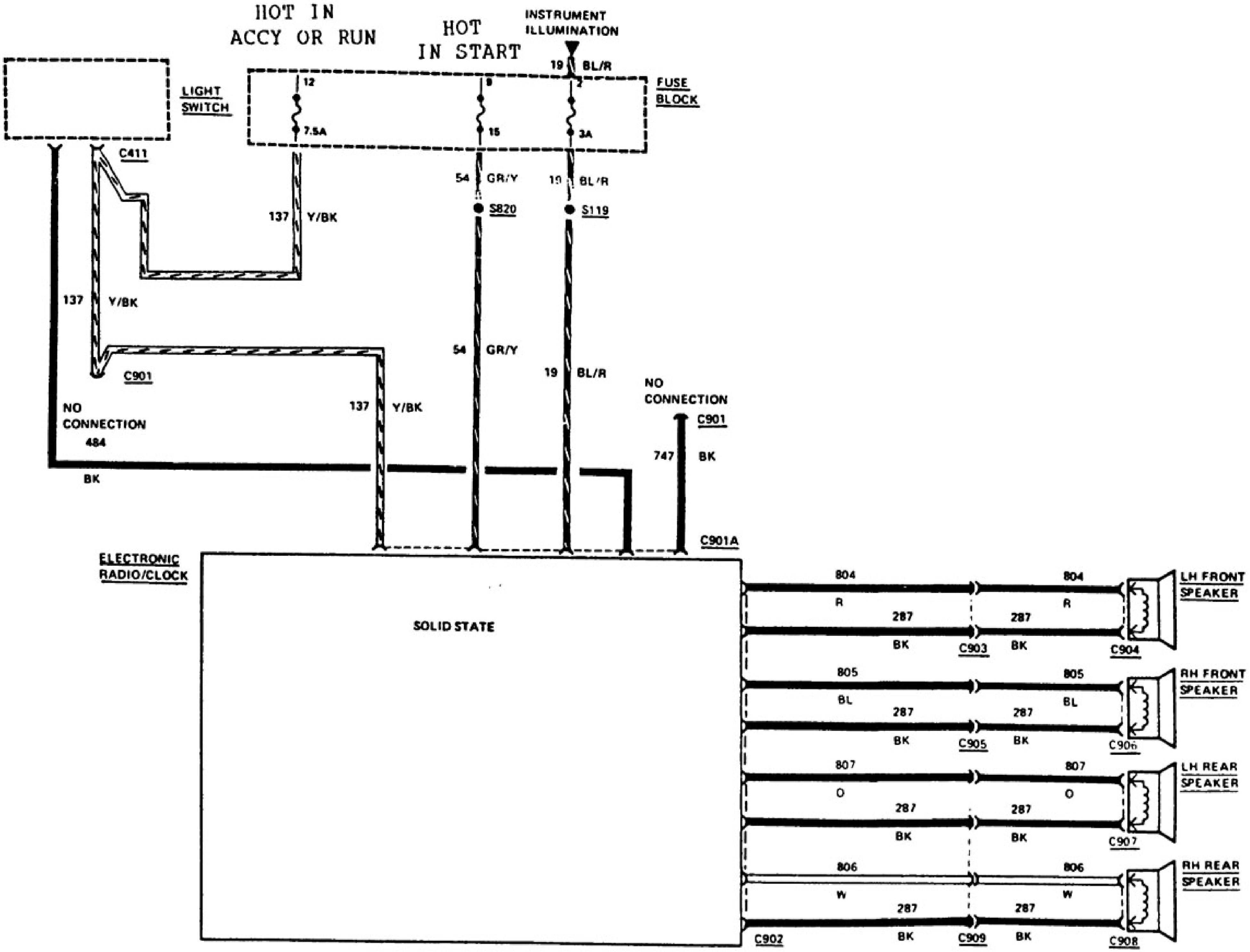


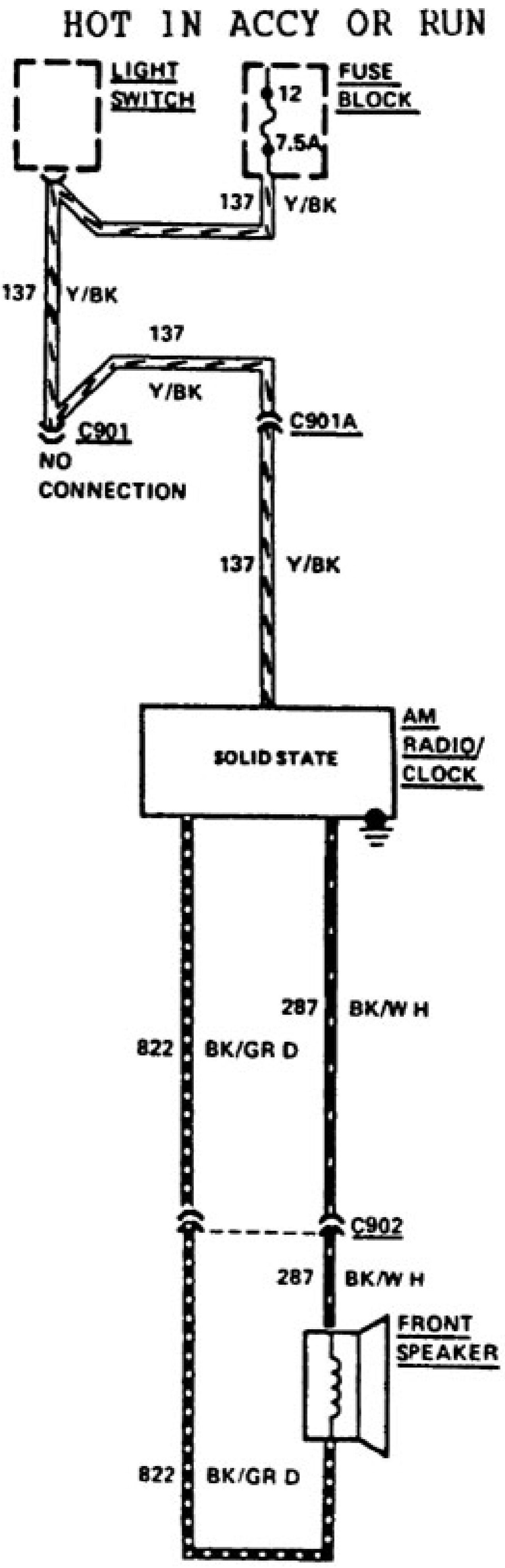
WITH SPEED CONTROL

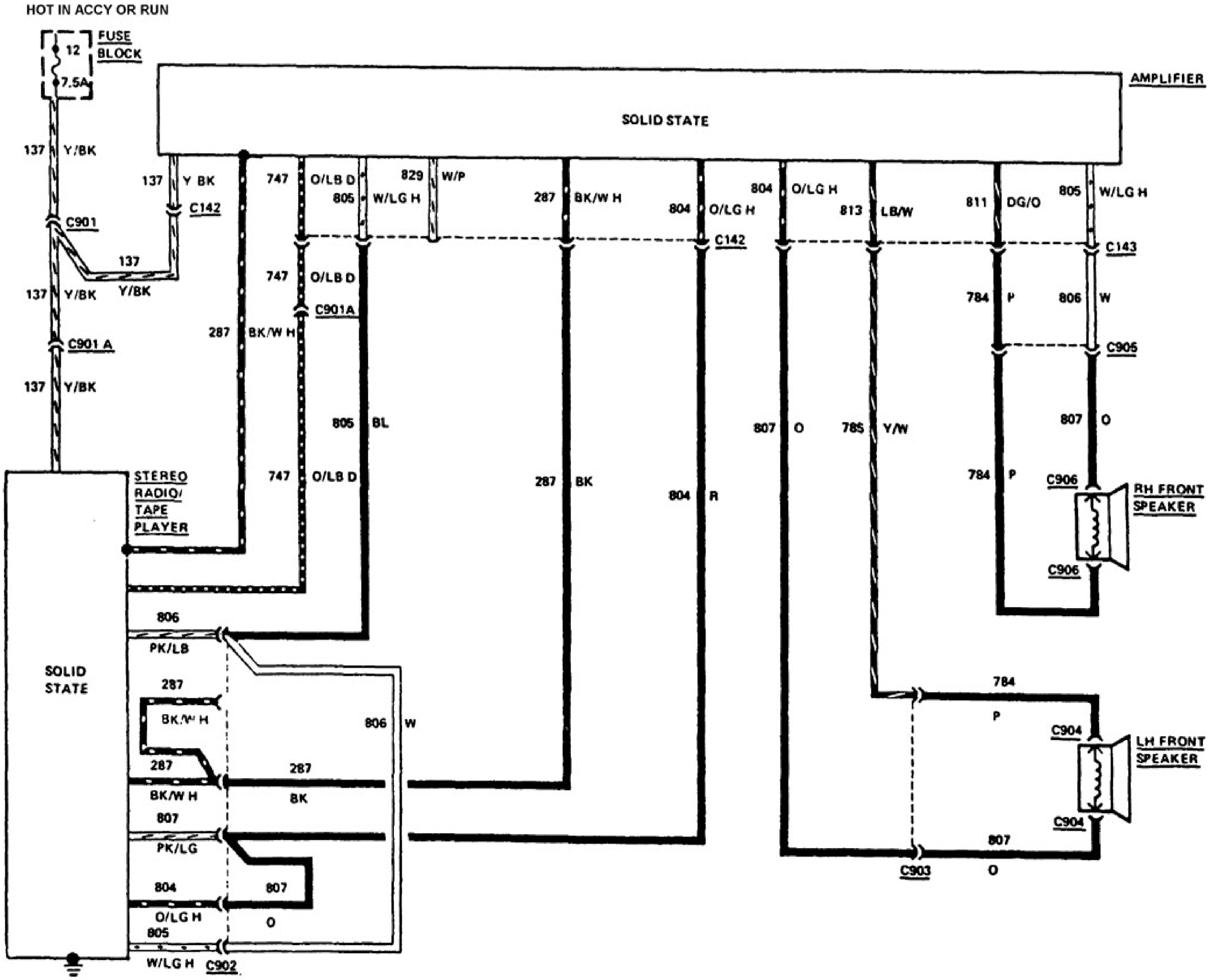


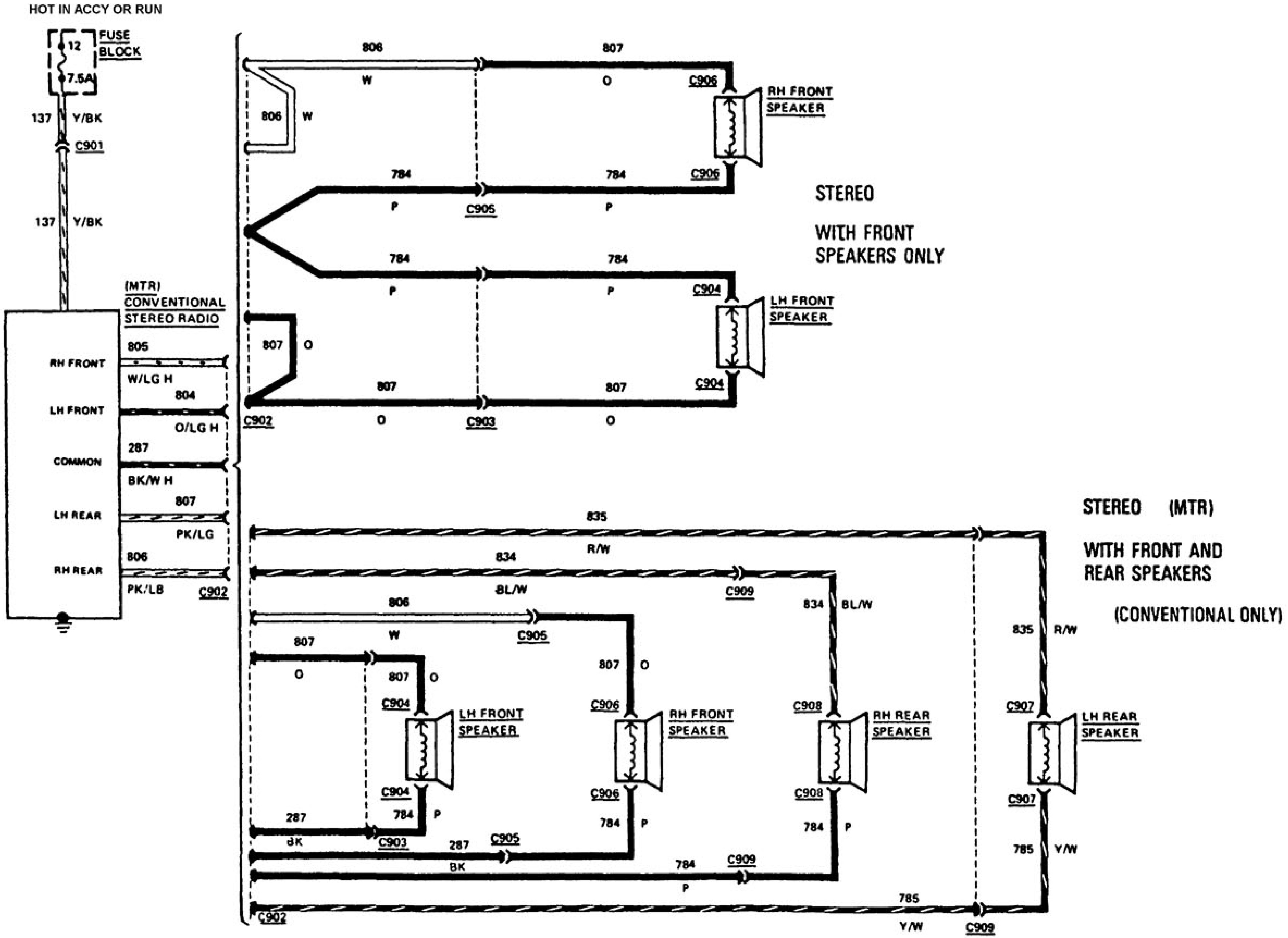

HOT IN ACCY OR RUN
FROM VACUUM DISTRIBUTION
HOT AT ALL TIMES
10
20A
FUSE BLOCK
296
R
C719
297
BK/GR
297
BK/GR
CAMPER/ TRAILER, AUXILIARY BATTERY
C1006
J
BLACK/ BROWN
MODULATING VALVE (CONTROLS VACUUM LEVEL APPLIED TO SERVO MOTOR)
40-125 OHMS
60-190 OHMS
FAST
SLOW
SERVO MOTOR
SPEED CONTROL SERVO
ACTUATOR CONNECTS TO THROTTLE LINKAGE
50,000 OHMS
WHITE
VAC
VENT
VACUUM DUMP VALVE VENTS TO ATMOSPHERE WHEN BRAKE IS DEPRESSED
825
GY/BK
734
O/Y
826
W/PK
828
BR/GR
735
P/BL
827
Y/R
C1003
8
15A
FUSE BLOCK
383
R/W
460
383
Y
S180
R/W
HORN, SPEED CONTROL
TURN/STOP/ HAZARD LIGHTS
10
GR/R
STOP LIGHT SWITCH
810
R/BK
C315
810
R/BK
810
810
R/BK
C315A
R/BK
CLUTCH SWITCH OPENS WITH CLUTCH PRESSURE
TURN/STOP/ HAZARD LIGHTS
810
R/BK
C1006
SPEED CONTROL AMPLIFIER
SOLID STATE
151
BL/BK
C315A
614
GR
S450
614
GR
614
57
GR
BK
S451
57
BK
C1001
614
GR
SPEED SENSOR
40 OHMS
SPEEDOMETER CABLE
57
BK
614
GR
57
BK
146
BK
145
BK
C1020
ELECTRONIC ENGINE CONTROL
C1006
57
BK
G702
STEERING WHEEL
TURN/HAZARD SWITCH
SPEED CONTROL
BRUSH
151
BL
151
BL


HOT IN START OR RUN
FUSE BLOCK
3
15A
CHARGE/ POWER DISTRIBUTION
640
R/Y
640
R/Y
EXTENDED USEFUL LIFE MODULE
640
R/Y
S230
640
R/Y
INSTRUMENT CLUSTER
BRAKE INDICATOR
977
P/W
S512
977
P/W
977
P/W
977
P/W
DUAL BRAKE WARNING SWITCH
CLOSED WITH BRAKES APPLIED AND ONE SYSTEM LEAKING
PARKING BRAKE SWITCH
CLOSED WITH BRAKE APPLIED
IGNITION SWITCH
CLOSED IN START FOR BULB TEST
P1
ACC
START
LOCK
RUN
OFF


HOT IN
ACCY OR RUN
HOT
IN START
INSTRUMENT
ILLUMINATION
19 BL/R
FUSE
BLOCK
LIGHT
SWITCH
12
9
2
7.5A
15
3A
C411
54 GR/Y
19 BL/R
S820
S119
137 Y/BK
137 Y/BK
C901
54 GR/Y
19 BL/R
NO
CONNECTION
C901
747 BK
137 Y/BK
NO
CONNECTION
484
BK
C901A
ELECTRONIC
RADIO/CLOCK
SOLID STATE
804
R
287
BK
C903
C904
LH FRONT
SPEAKER
805
BL
287
BK
C905
C906
RH FRONT
SPEAKER
807
O
287
BK
C907
LH REAR
SPEAKER
806
W
287
BK
C902
C909
C908
RH REAR
SPEAKER


HOT IN ACCY OR RUN
LIGHT SWITCH
FUSE BLOCK
12
7.5A
137
Y/BK
137
Y/BK
137
Y/BK
C901
NO CONNECTION
C901A
137
Y/BK
SOLID STATE
AM RADIO/ CLOCK
287
BK/W H
822
BK/GR D
C902
287
BK/W H
FRONT SPEAKER
822
BK/GR D


HOT IN ACCY OR RUN
FUSE BLOCK
12
7.5A
AMPLIFIER
SOLID STATE
137 Y/BK
137 Y BK
C142
C901
137
Y/BK
137 Y/BK
C901 A
137 Y/BK
747 O/LB D
805 W/LG H
829 W/P
287 BK/W H
804 O/LG H
804 O/LG H
813 LB/W
811 DG/O
805 W/LG H
C142
C143
747 O/LB D
C901A
287 BK/W H
805 BL
747 O/LB D
287 BK
804 R
807 O
785 Y/W
784 P
806 W
C905
807 O
784 P
C906
RH FRONT SPEAKER
C906
STEREO RADIO/ TAPE PLAYER
SOLID STATE
806
PK/LB
287
BK/W H
806 W
287
BK/W H
287
BK
807
PK/LG
804
807
O/LG H
O
805
W/LG H
C902
784
P
C904
LH FRONT SPEAKER
C904
807
C903
O



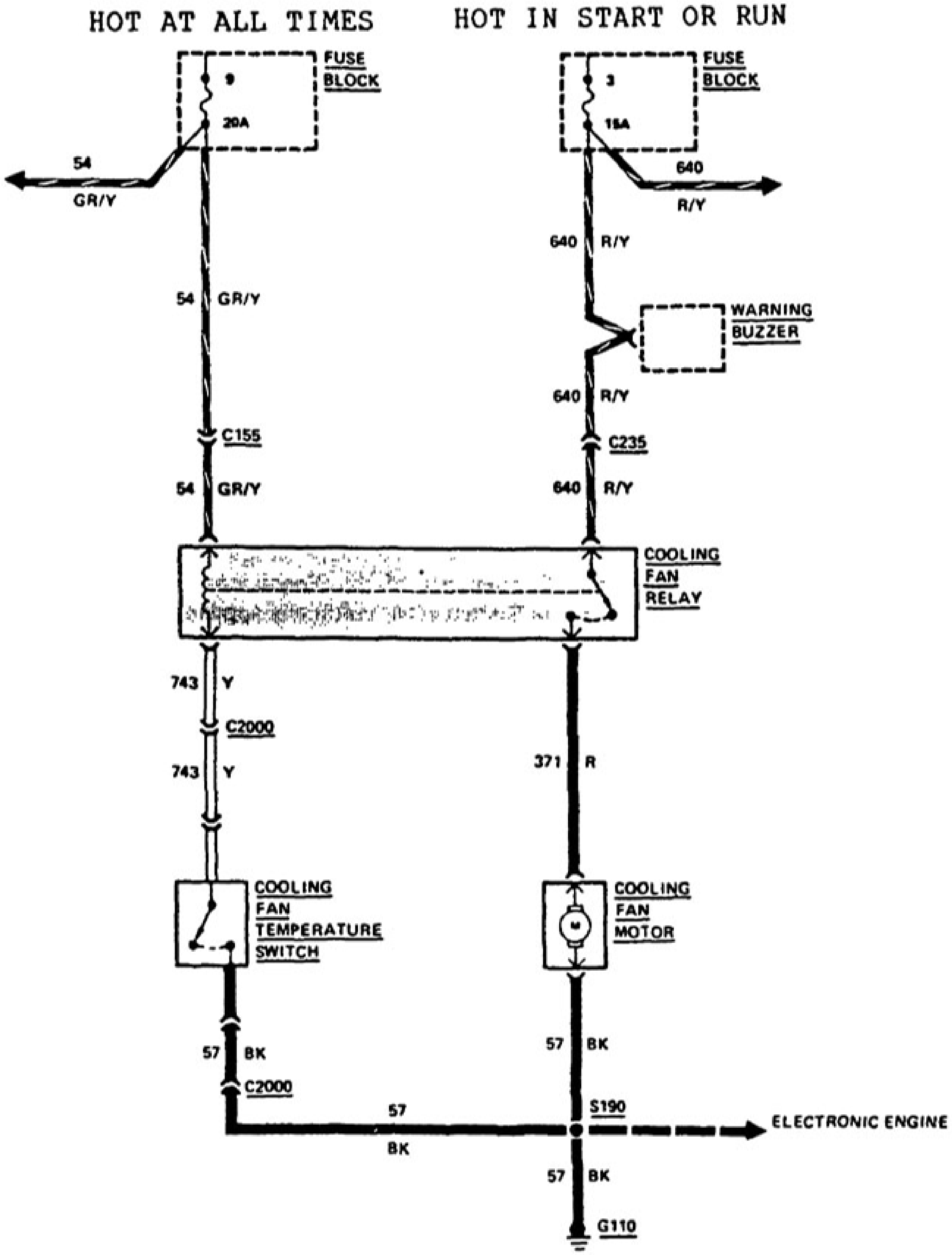
STEREO

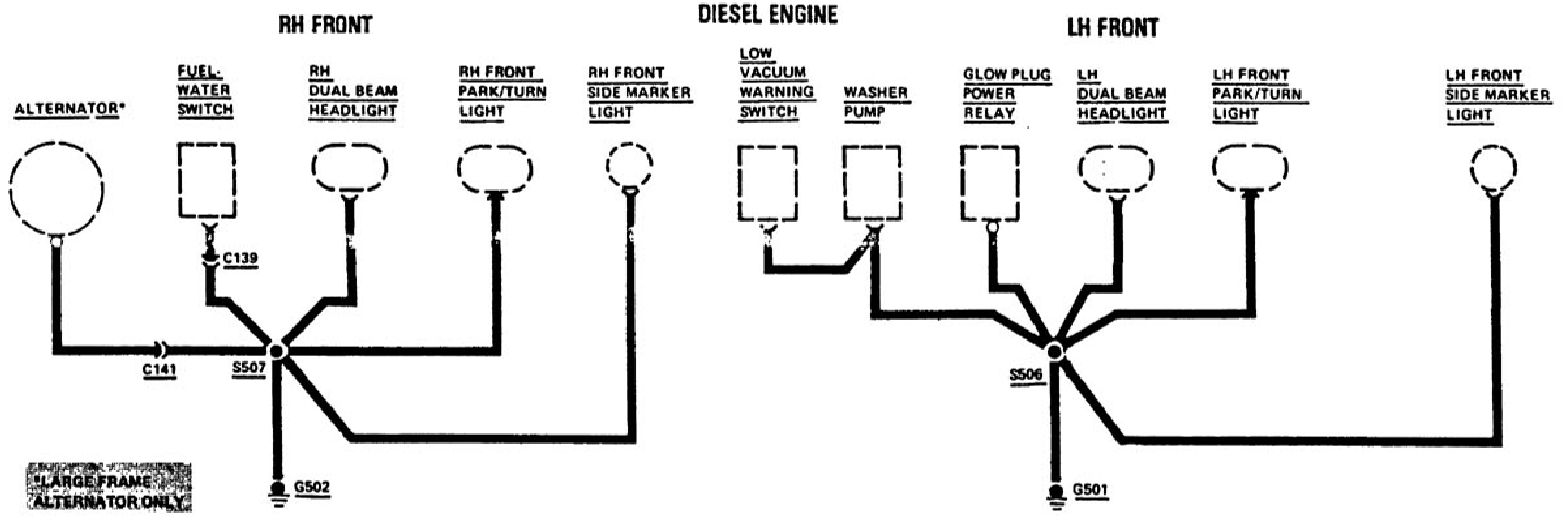
WITH FRONT SPEAKERS ONLY

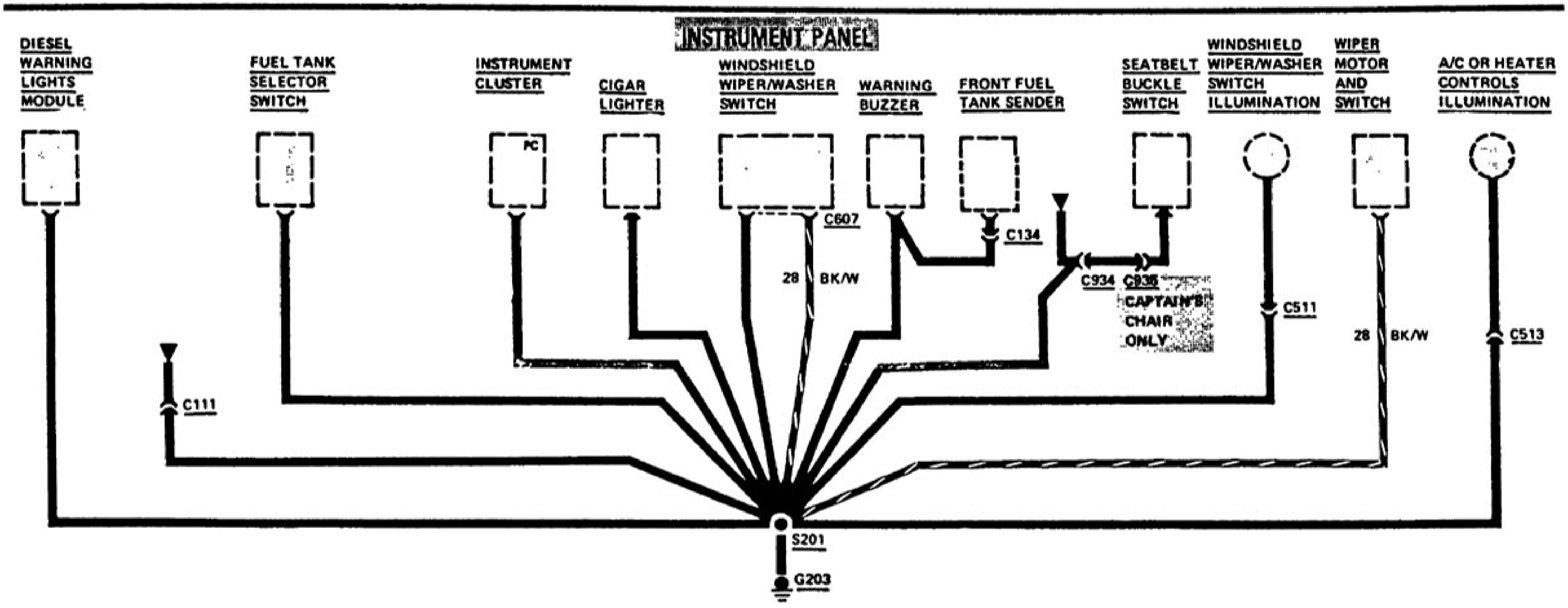
STEREO (MTR)

WITH FRONT AND REAR SPEAKERS

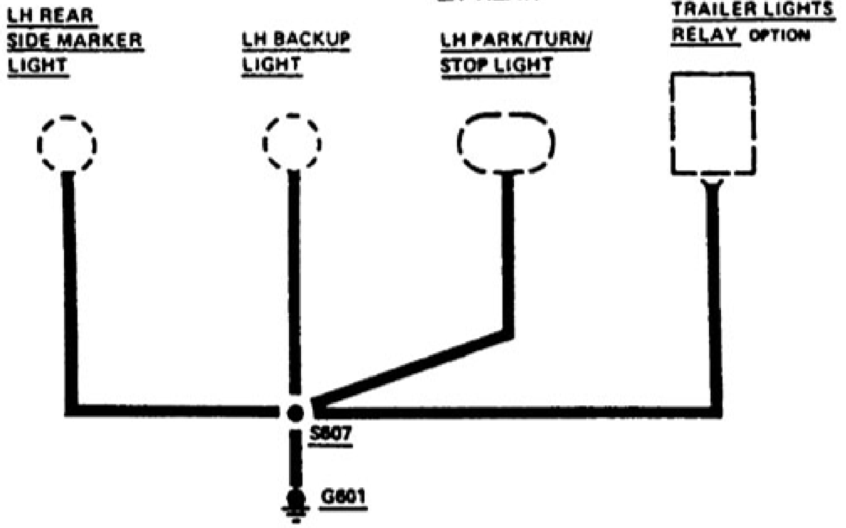
(CONVENTIONAL ONLY)

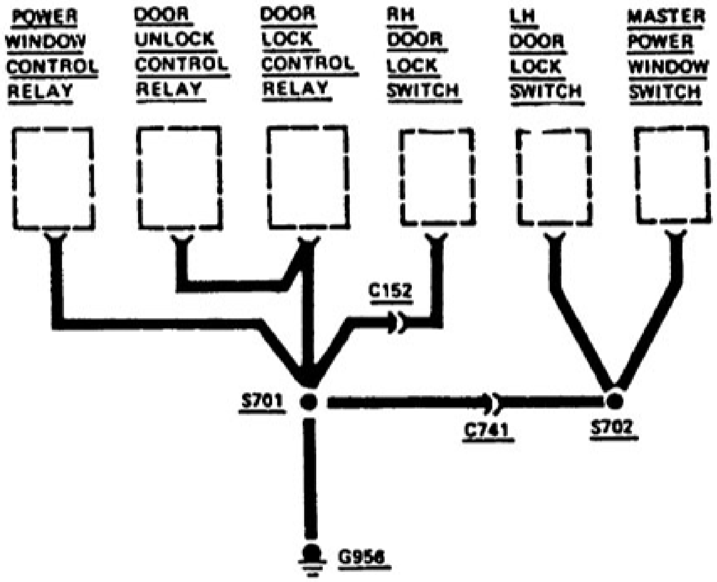

HOT AT ALL TIMES
HOT IN START OR RUN
FUSE BLOCK
9
20A
54
GR/Y
54 GR/Y
C155
54 GR/Y
FUSE BLOCK
3
15A
640
R/Y
640 R/Y
WARNING BUZZER
640 R/Y
C235
640 R/Y
COOLING FAN RELAY
743 Y
C2000
743 Y
371 R
COOLING FAN TEMPERATURE SWITCH
COOLING FAN MOTOR
M
57 BK
C2000
57 BK
57
BK
S190
ELECTRONIC ENGINE
57 BK
G110


RH FRONT
DIESEL ENGINE
LH FRONT
ALTERNATOR*
FUEL-WATER SWITCH
RH DUAL BEAM HEADLIGHT
RH FRONT PARK/TURN LIGHT
RH FRONT SIDE MARKER LIGHT
LOW VACUUM WARNING SWITCH
WASHER PUMP
GLOW PLUG POWER RELAY
LH DUAL BEAM HEADLIGHT
LH FRONT PARK/TURN LIGHT
LH FRONT SIDE MARKER LIGHT
C139
C141
S507
G502
*LARGE FRAME ALTERNATOR ONLY
S506
G501

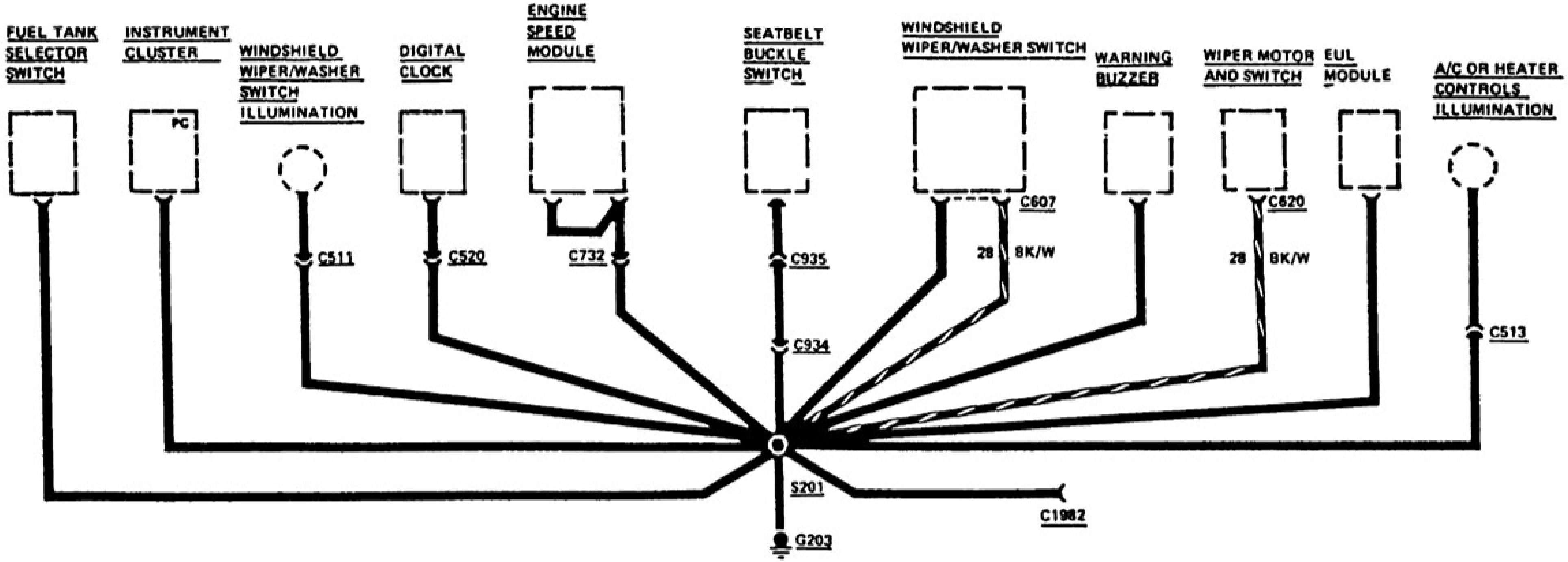

INSTRUMENT PANEL
DIESEL WARNING LIGHTS MODULE
FUEL TANK SELECTOR SWITCH
INSTRUMENT CLUSTER
PC
CIGAR LIGHTER
WINDSHIELD WIPER/WASHER SWITCH
WARNING BUZZER
FRONT FUEL TANK SENDER
SEATBELT BUCKLE SWITCH
WINDSHIELD WIPER/WASHER SWITCH ILLUMINATION
WIPER MOTOR AND SWITCH
A/C OR HEATER CONTROLS ILLUMINATION
C607
28
BK/W
C134
C934
C935
CAPTAIN'S CHAIR ONLY
C511
28
BK/W
C513
C111
S201
G203

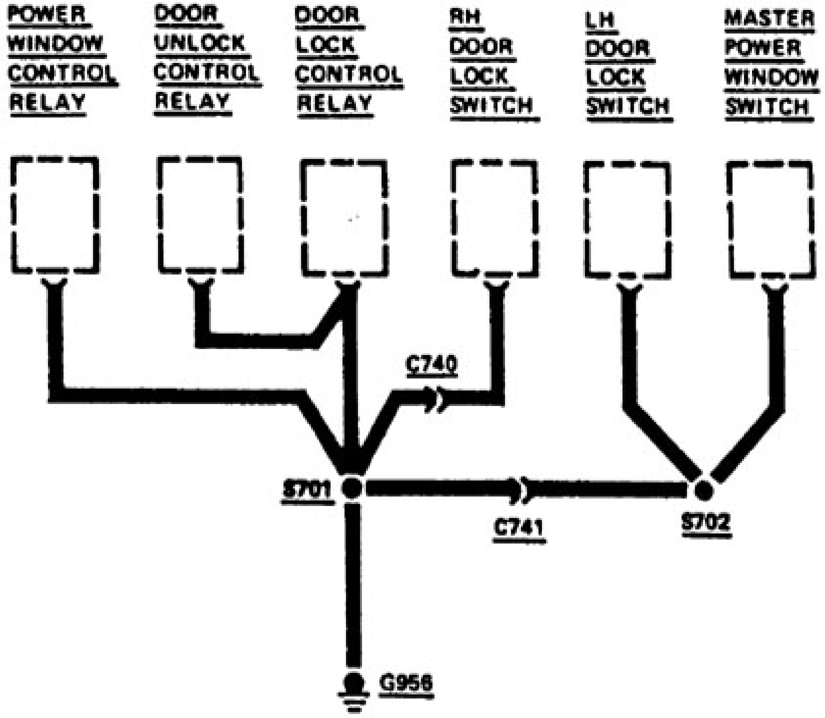
LH REAR



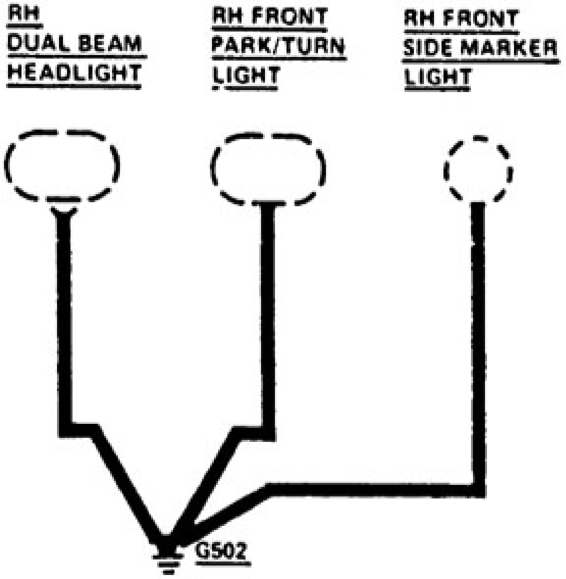


INSTRUMENT PANEL

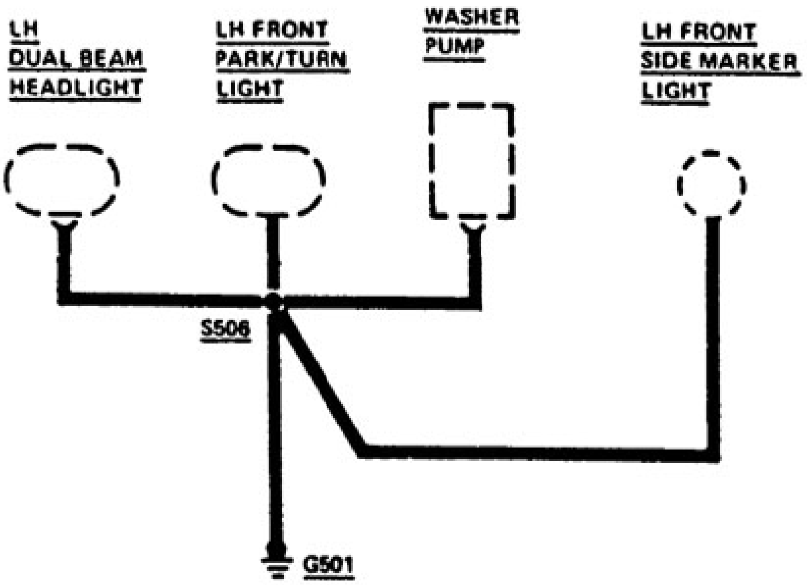


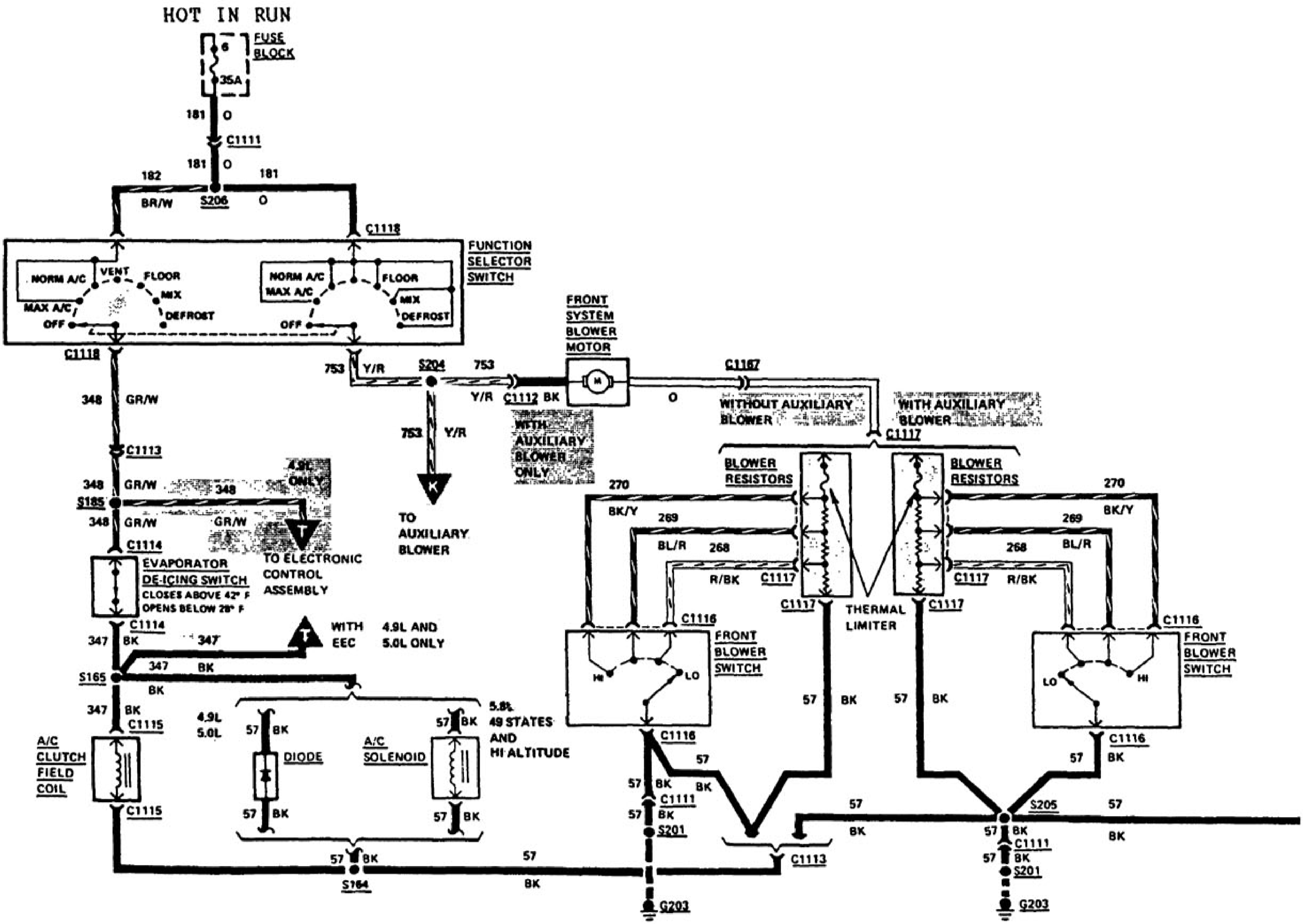


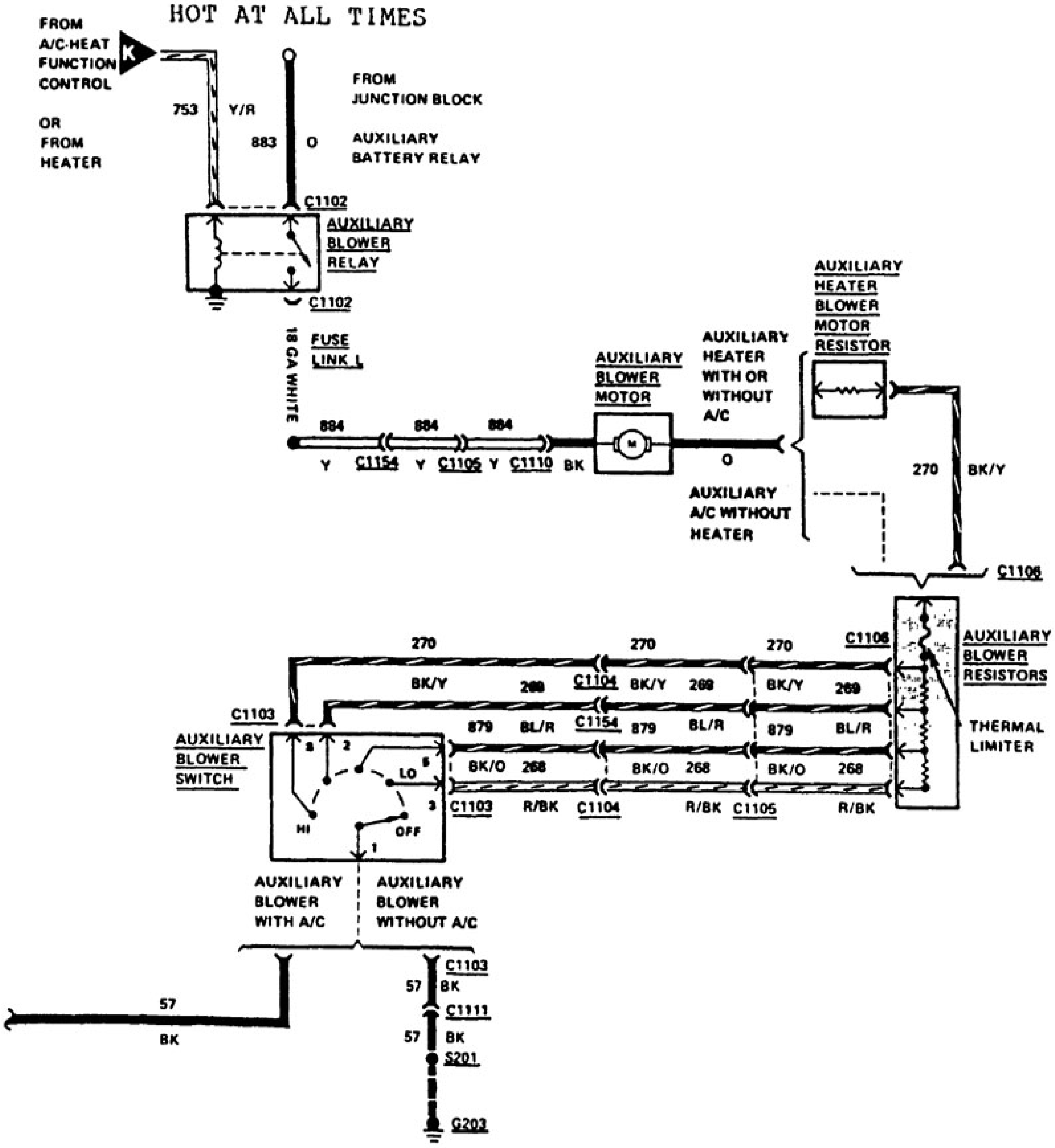
RH FRONT



LH FRONT




HOT IN RUN
FUSE BLOCK
6
35A
181
O
C1111
182
BR/W
S206
C1118
FUNCTION SELECTOR SWITCH
NORM A/C
VENT
FLOOR
MIX
MAX A/C
OFF
DEFROST
753
Y/R
S204
C1112
BK
FRONT SYSTEM BLOWER MOTOR
M
C1167
WITHOUT AUXILIARY BLOWER
WITH AUXILIARY BLOWER
WITH AUXILIARY BLOWER ONLY
C1117
BLOWER RESISTORS
THERMAL LIMITER
270
BK/Y
269
BL/R
268
R/BK
C1116
FRONT BLOWER SWITCH
HI
LO
57
348
GR/W
C1113
S185
4.9L ONLY
TO ELECTRONIC CONTROL ASSEMBLY
K
TO AUXILIARY BLOWER
C1114
EVAPORATOR DE-ICING SWITCH
CLOSES ABOVE 42° F
OPENS BELOW 28° F
347
WITH EEC
4.9L AND 5.0L ONLY
T
S165
C1115
A/C CLUTCH FIELD COIL
4.9L
5.0L
DIODE
A/C SOLENOID
5.8L 49 STATES AND HI ALTITUDE
S164
S201
G203
S205


HOT AT ALL TIMES
FROM A/C-HEAT FUNCTION CONTROL
K
OR FROM HEATER
753
Y/R
883
O
FROM JUNCTION BLOCK
AUXILIARY BATTERY RELAY
C1102
AUXILIARY BLOWER RELAY
C1102
18 GA WHITE
FUSE LINK L
884
Y
C1154
884
Y
C1105
884
Y
C1110
BK
AUXILIARY BLOWER MOTOR
M
O
AUXILIARY HEATER WITH OR WITHOUT A/C
AUXILIARY A/C WITHOUT HEATER
AUXILIARY HEATER BLOWER MOTOR RESISTOR
270
BK/Y
C1106
C1106
AUXILIARY BLOWER RESISTORS
THERMAL LIMITER
270
BK/Y
269
C1104
270
BK/Y
269
270
BK/Y
269
879
BL/R
C1154
879
BL/R
879
BL/R
BK/O
268
BK/O
268
BK/O
268
C1103
R/BK
C1104
R/BK
C1105
R/BK
C1103
AUXILIARY BLOWER SWITCH
4
2
5
LO
3
HI
OFF
1
AUXILIARY BLOWER WITH A/C
AUXILIARY BLOWER WITHOUT A/C
57
BK
C1103
57
BK
C1111
57
BK
S201
G203